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OFFICE OF NAVAL INTELLIGENCE

1 DECEMBER 1921

DIAGRAMMATIC STUDY OF BATTLE OF JUTLAND

PREPARED
BY

LIEUT. COMMANDER H. H. FROST, U. S. NAVY

NOTE.-- This pamphlet is issued for the information of the U.S.Naval Service and is not confidential. All officers should have an opportunity to study this pamphlet.

Orders of British Admiralty - 30 May

1- On 30 May, probably during the forenoon, the Admiralty received news which pointed to early activity on the part of the High Sea Fleet.

2- About noon the Admiralty ordered the Commander, Dover Patrol to send the Harwich destroyers back to Harwich and to recall the Belgian coast patrol; the R.A. East Coast to recall minesweeping sloops; the 3.B.S and 3.C.S. to

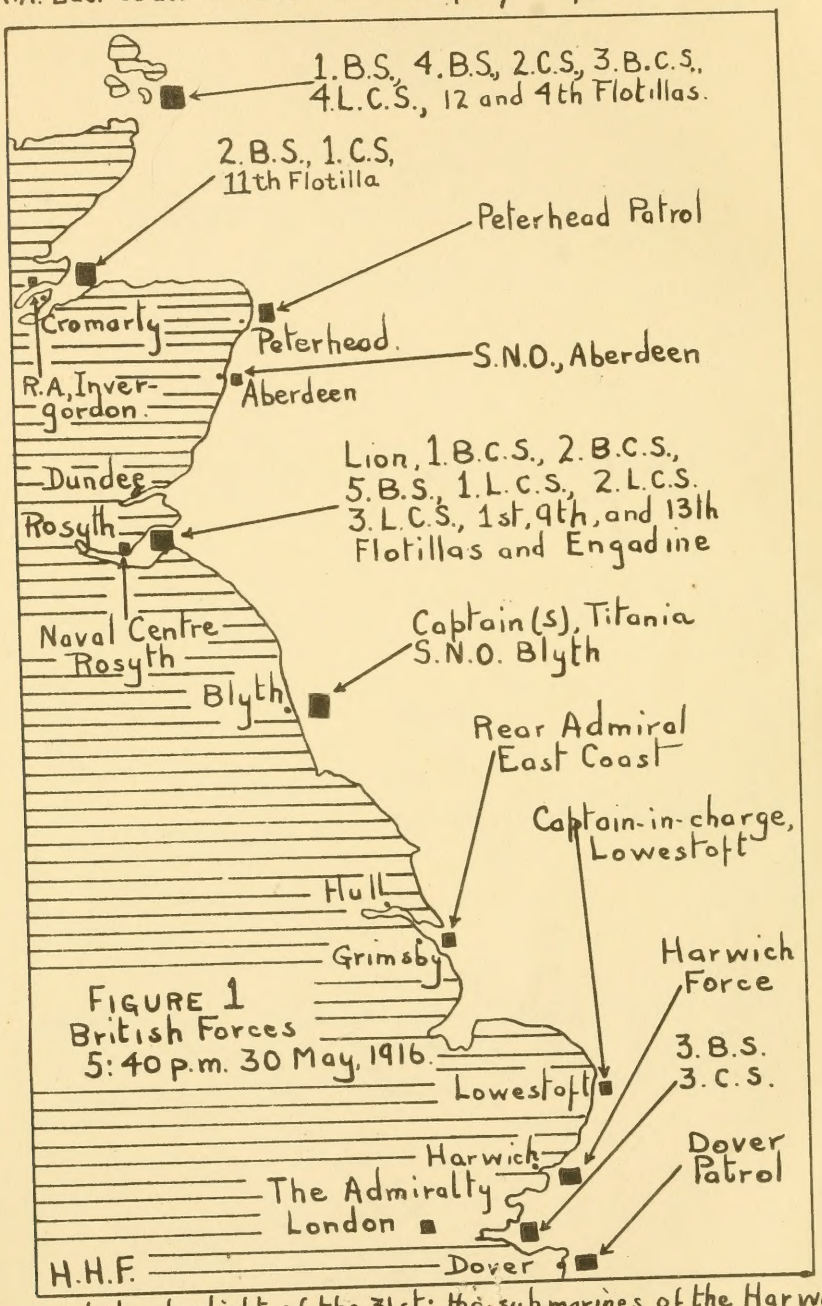

FIGURE 1
British Forces
5:40 p.m. 30 May, 1916.

have steam ready by daylight of the 31st; the submarines of the Harwich Force to be ready on short notice.

3- At 5:40 p.m following message was sent to C-in-C, G.F, at Scapa: "You should concentrate to Eastward of Long Forties, ready for eventualities."

4- At 5:40, S.O., 2.B.S. made "Preparatory signal for leaving Cromarty."

5- At 5:40, C-in-C., G.F. made "Preparatory signal for leaving Scapa."

6- At 5:45, S.O., B.C.F. made signal: "Raise steam for 22 knots."

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British Notes

A- Lion passes May Is at 12:05 a.m.

B- Commence zigzag at 2:30 a.m.

C- Battle Fleet forms anti-submarine screen at 4:00

D- Cruising Disposition 1. ordered at 7:09 a.m.

E- 1.C.S joins cruiser screen at 9:00 a.m.

F- 2.B.S. joins battle fleet

G- 2:00 p.m position assigned for battle fleet.

H- 2:00 p.m position for B.C.F.

I- Submarines E-55, E-26 and D-1 proceed to take position off Vyl Lightship.

J- 4 Submarines and 1 Destroyer proceed toward assigned position

K- Assigned position of Submarines

German Notes

Z- Radio station at Neumünster reports that 2 large ships or sq'dns sailed at 8 a.m.

Y- U-32 reports 2 battleships, 2 cruisers and several destroyers at 7:32 a.m.

X- U-66 reports 8 battleships, light cruisers and destroyers at 8:48 a.m.

W- German Scouting Fleet at 2:00 p.m.

V- Battle Fleet at 2:00 p.m.

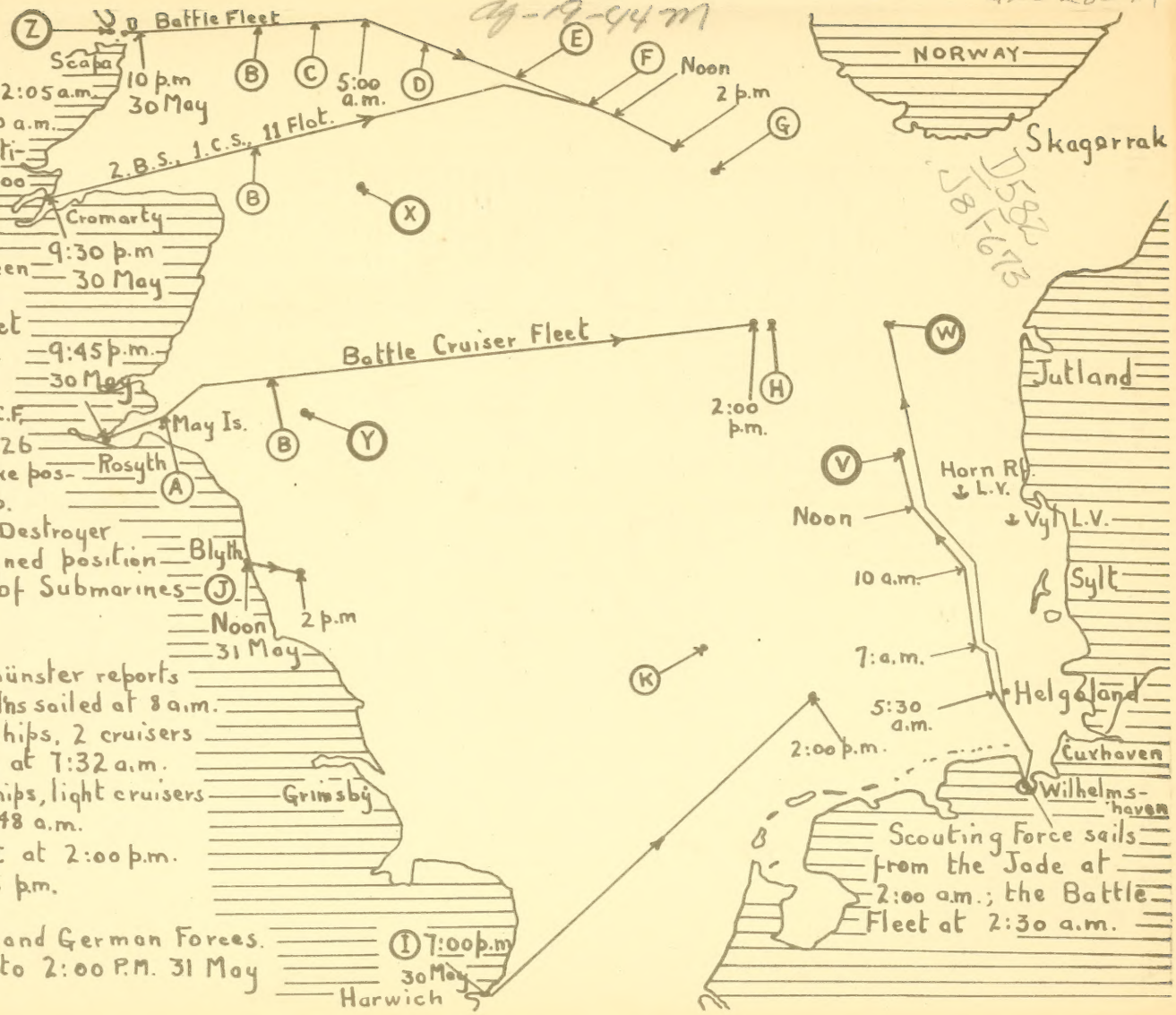


FIGURE 2.

Advance of British and German Forces.
7:00 P.M. 30 May to 2:00 P.M. 31 May

H.H.F.

A- Battle Fleet - Jellicoe
Battleships ------ 24
Battle Cruisers --- 3
Light Cruisers ---12
Cruisers -------- 8
Destroyers ----- 51

B- Battle Cruiser Fleet - Beatty
Battleships ----- 4
Battle Cruisers -- 6
Light Cruisers -- 14
Destroyers ---- 27
Seaplane Carrier -- 1

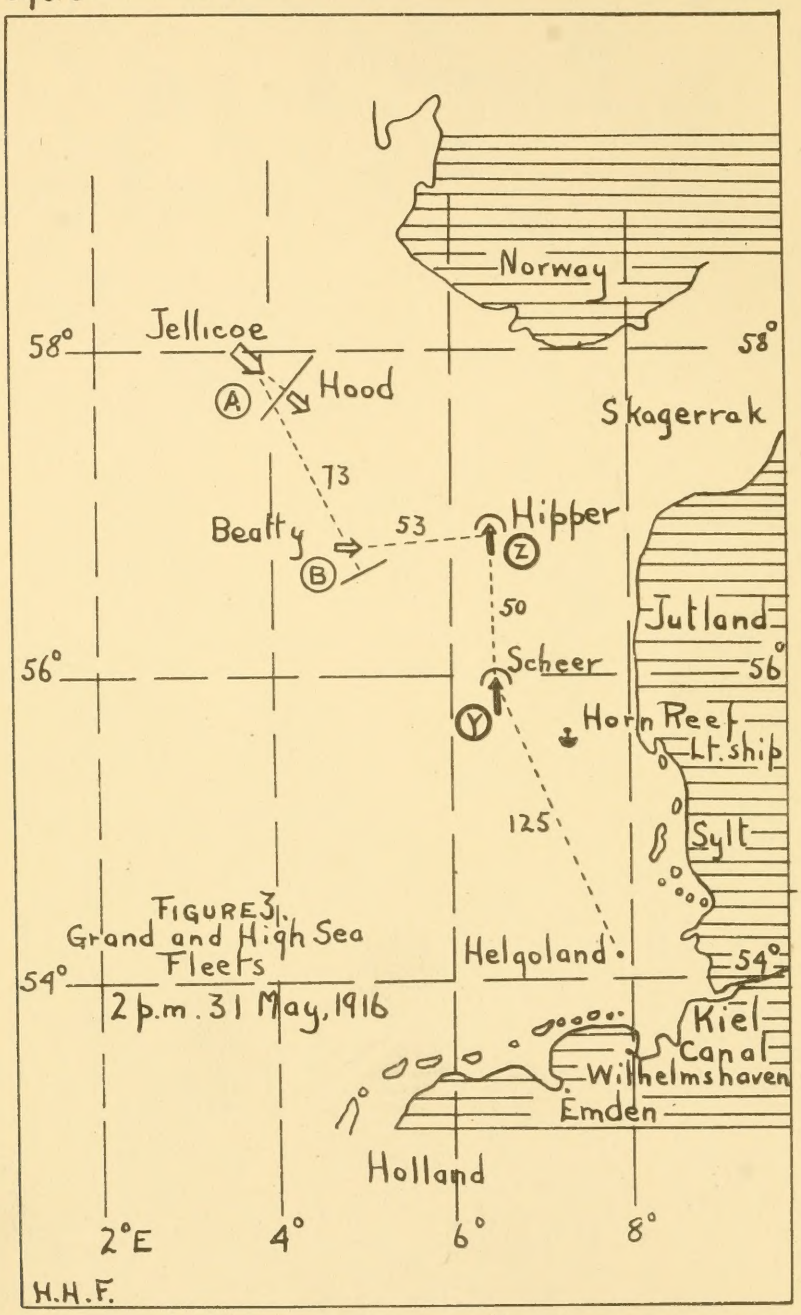


FIGURE 3.
Grand and High Sea Fleets
2 p.m. 31 May, 1916

Z- Scouting Force - Hipper
Battle Cruisers --- 5
Light Cruisers --- 5
Destroyers ----- 32

Y- Battle Fleet - Scheer
Battleships, 1st Line --- 16
Battleships, 2d Line --- 6
Light Cruisers ------- 6
Destroyers -------- 33

Note: Admiral Hipper states that the Germans had 65 Destroyers in the battle

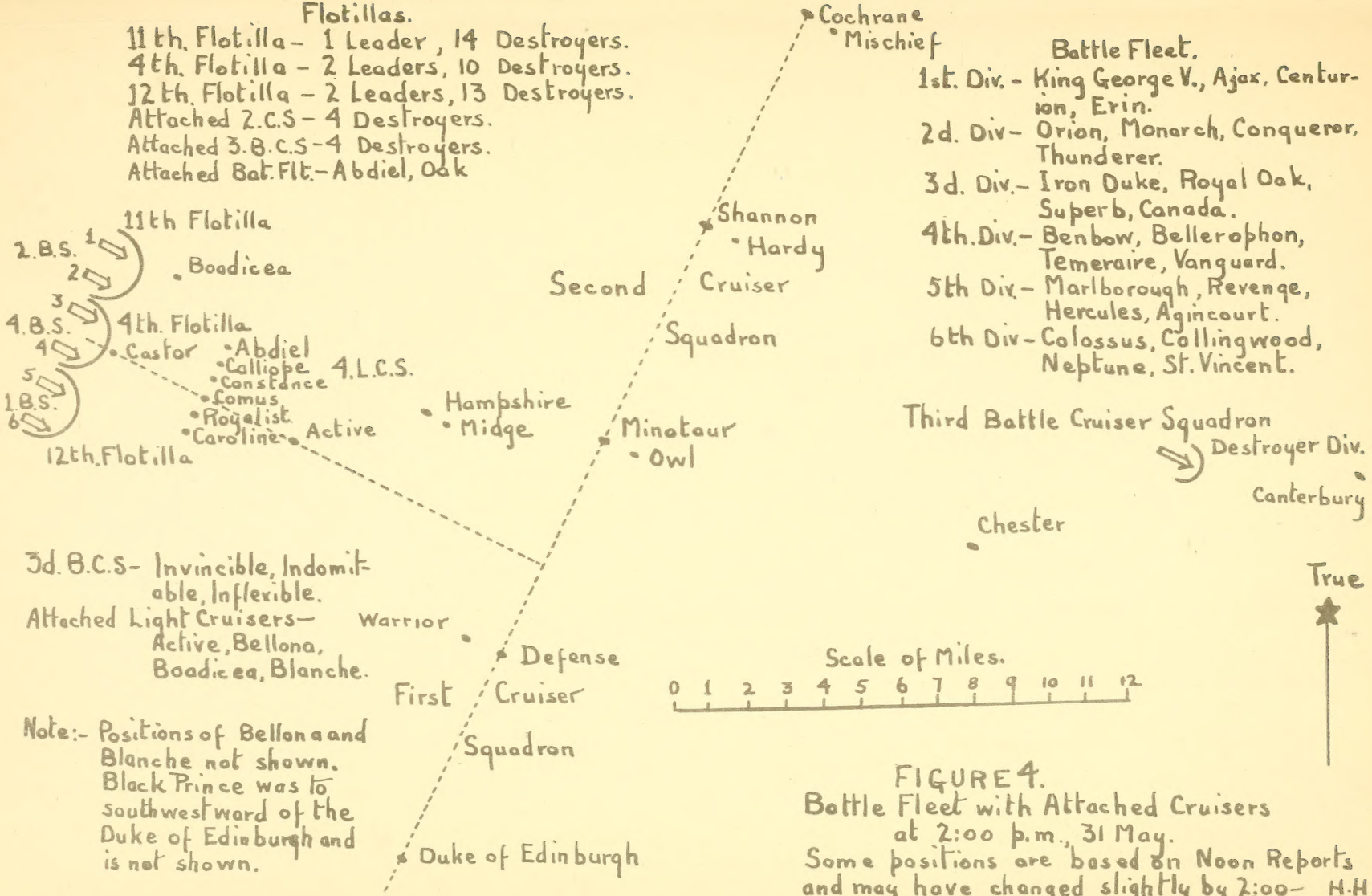
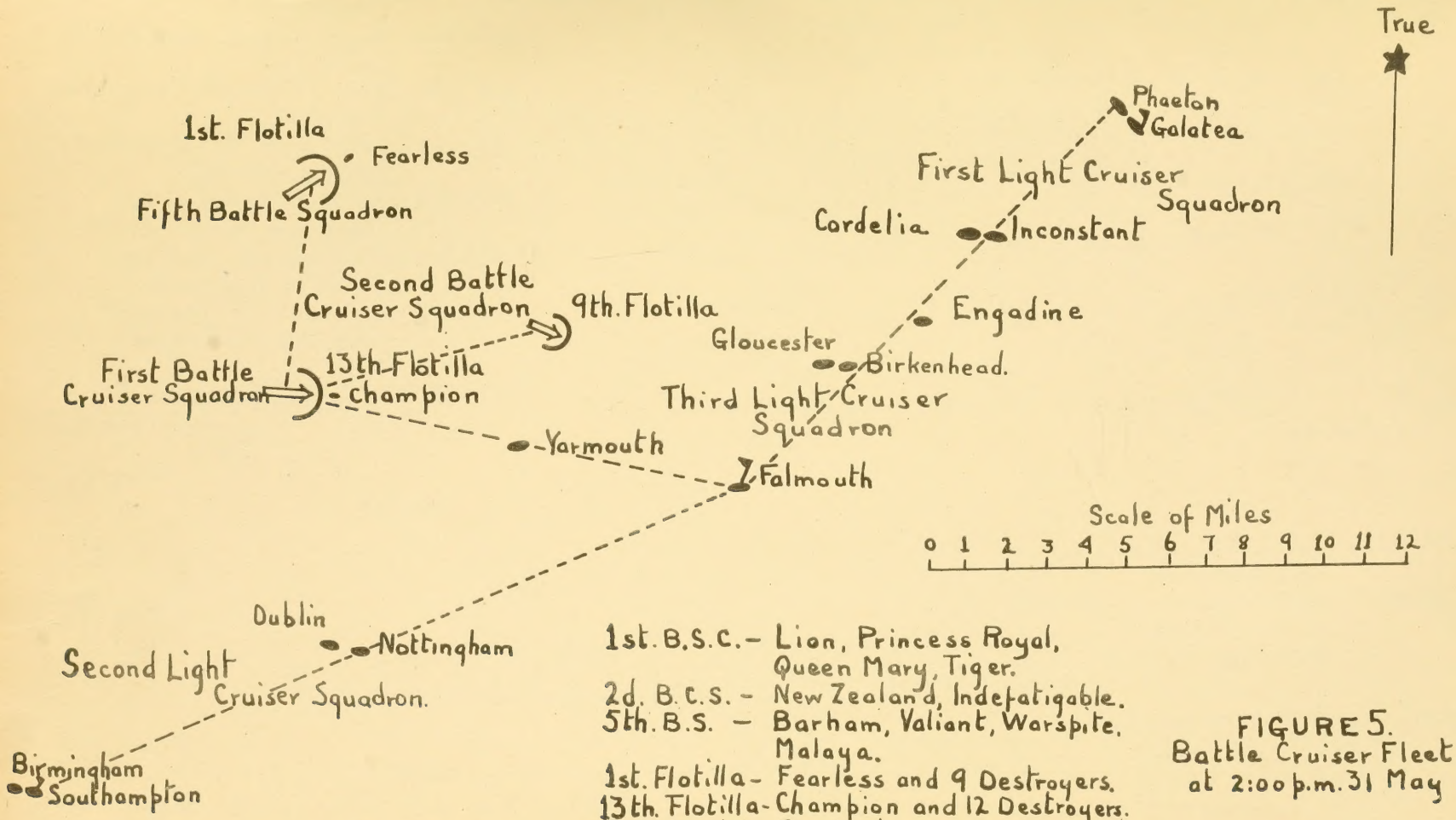


FIGURE 4.
Battle Fleet with Attached Cruisers at 2:00 p.m., 31 May.
Some positions are based on Noon Reports and may have changed slightly by 2:00– H.H.F.



1st. B.S.C. – Lion, Princess Royal, Queen Mary, Tiger.
2d. B.C.S. – New Zealand, Indefatigable.
5th. B.S. – Barham, Valiant, Warspite, Malaya.
1st. Flotilla – Fearless and 9 Destroyers.
13th. Flotilla – Champion and 12 Destroyers.
9th. Flotilla – Six Destroyers.
1, 2, 3. L.C.S – Four light cruisers each.

FIGURE 5.
Battle Cruiser Fleet
at 2:00 p.m. 31 May

H.H.F.

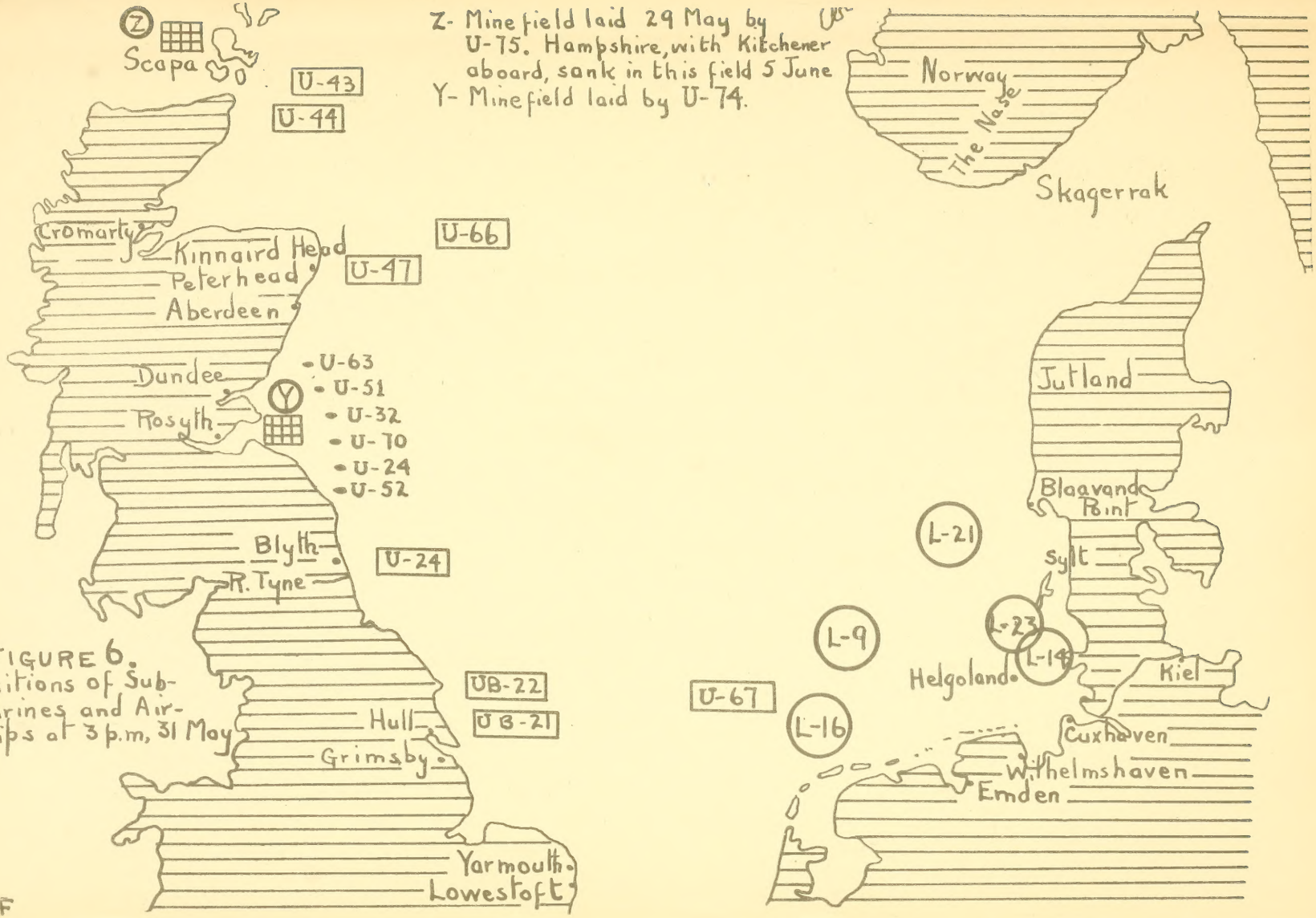


FIGURE 6.
Positions of Submarines and Airships at 3 p.m, 31 May

HHF

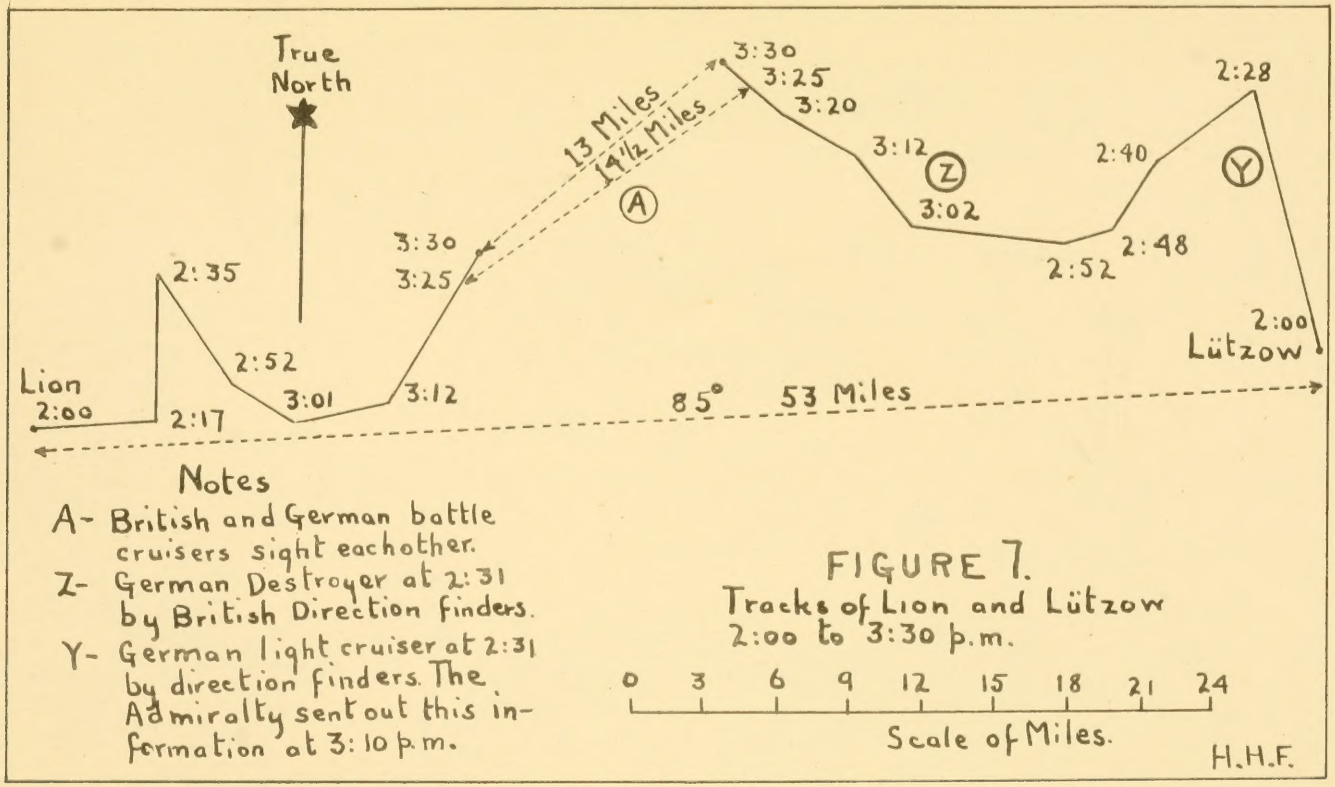


FIGURE 7.
Tracks of Lion and Lützow
2:00 to 3:30 p.m.

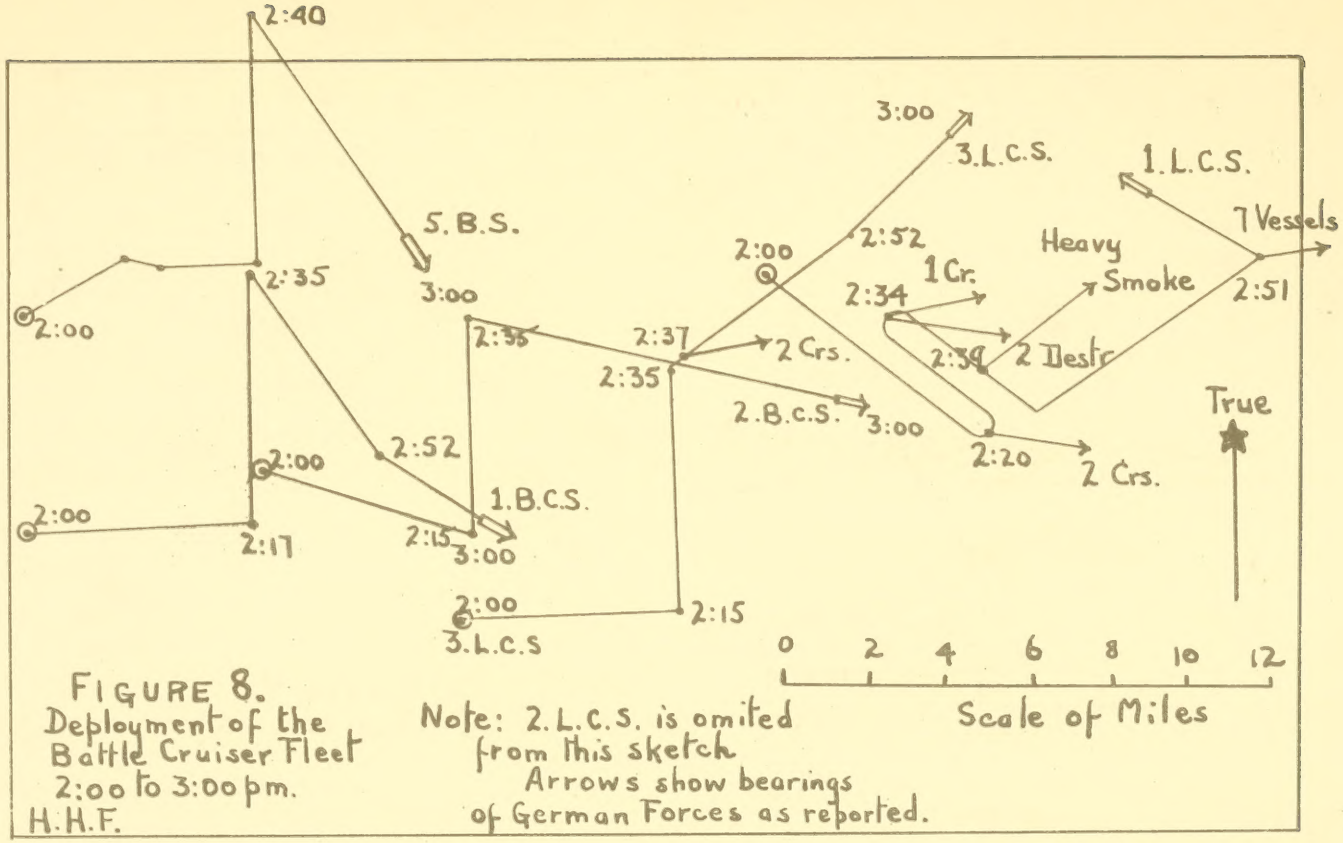


FIGURE 8.
Deployment of the Battle Cruiser Fleet 2:00 to 3:00 pm.
H.H.F.

Note: 2.L.C.S. is omited from this sketch
Arrows show bearings of German Forces as reported.

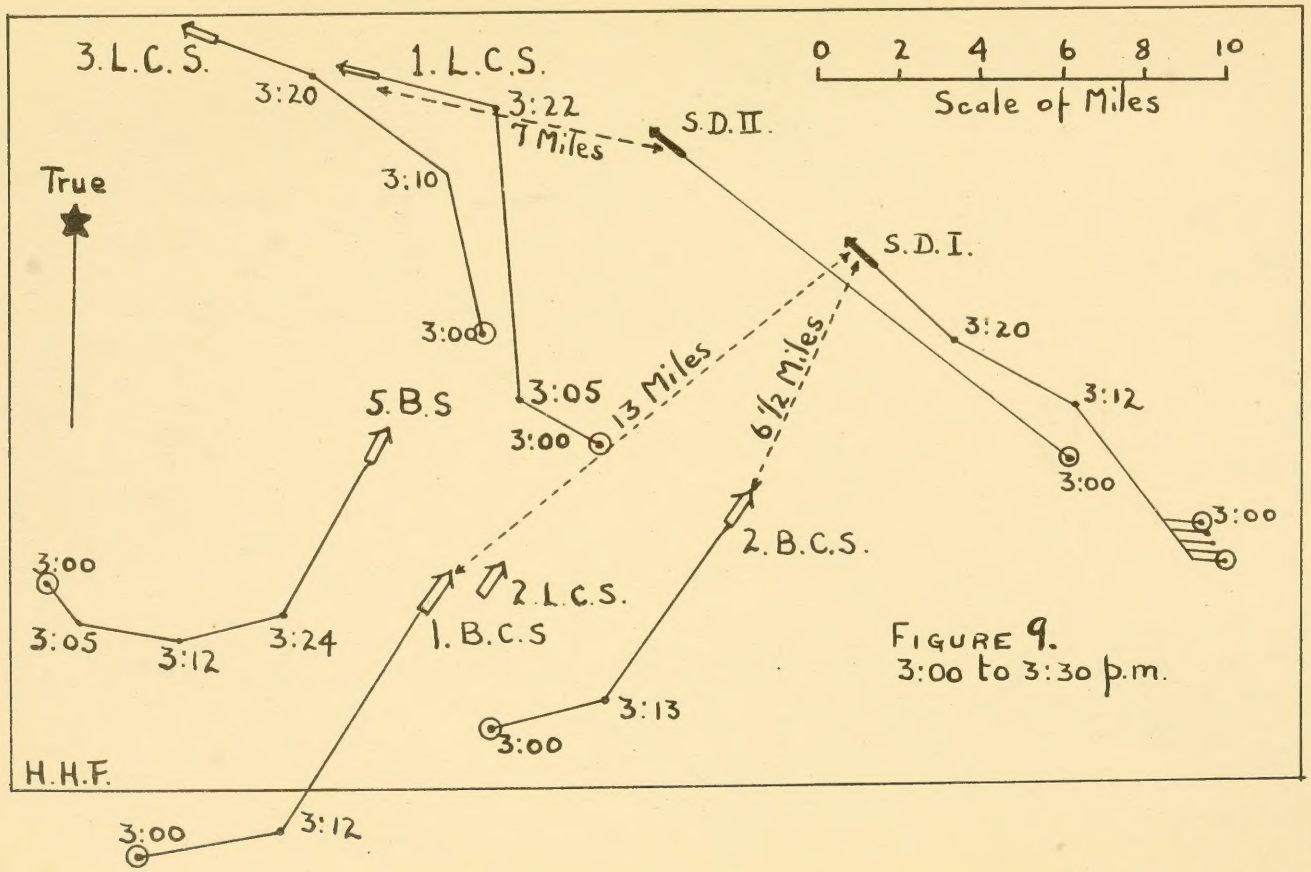


FIGURE 9.
3:00 to 3:30 p.m.

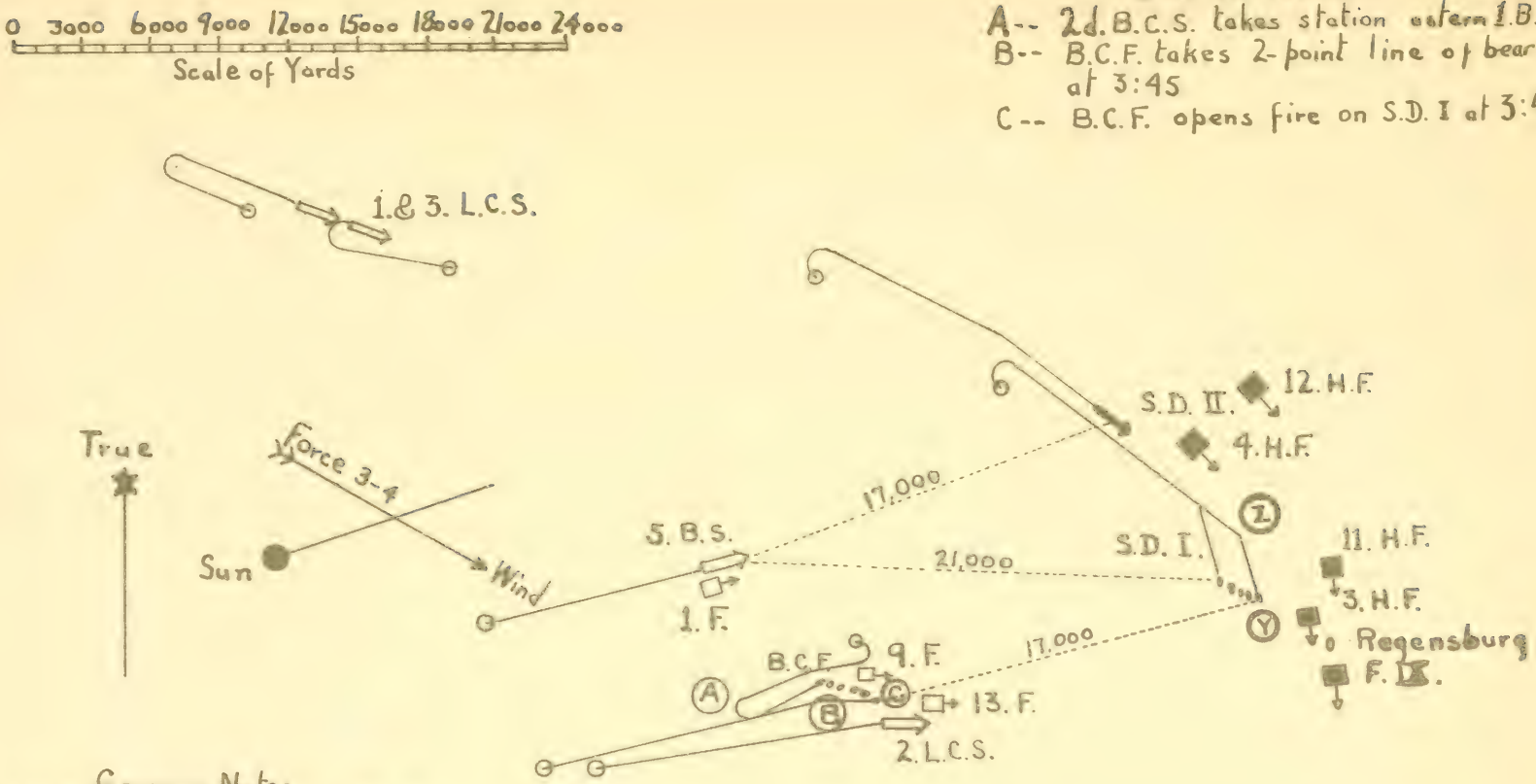


FIGURE 10.
Move 1 - 3:30 to 3.48 p.m.

H.H.F.

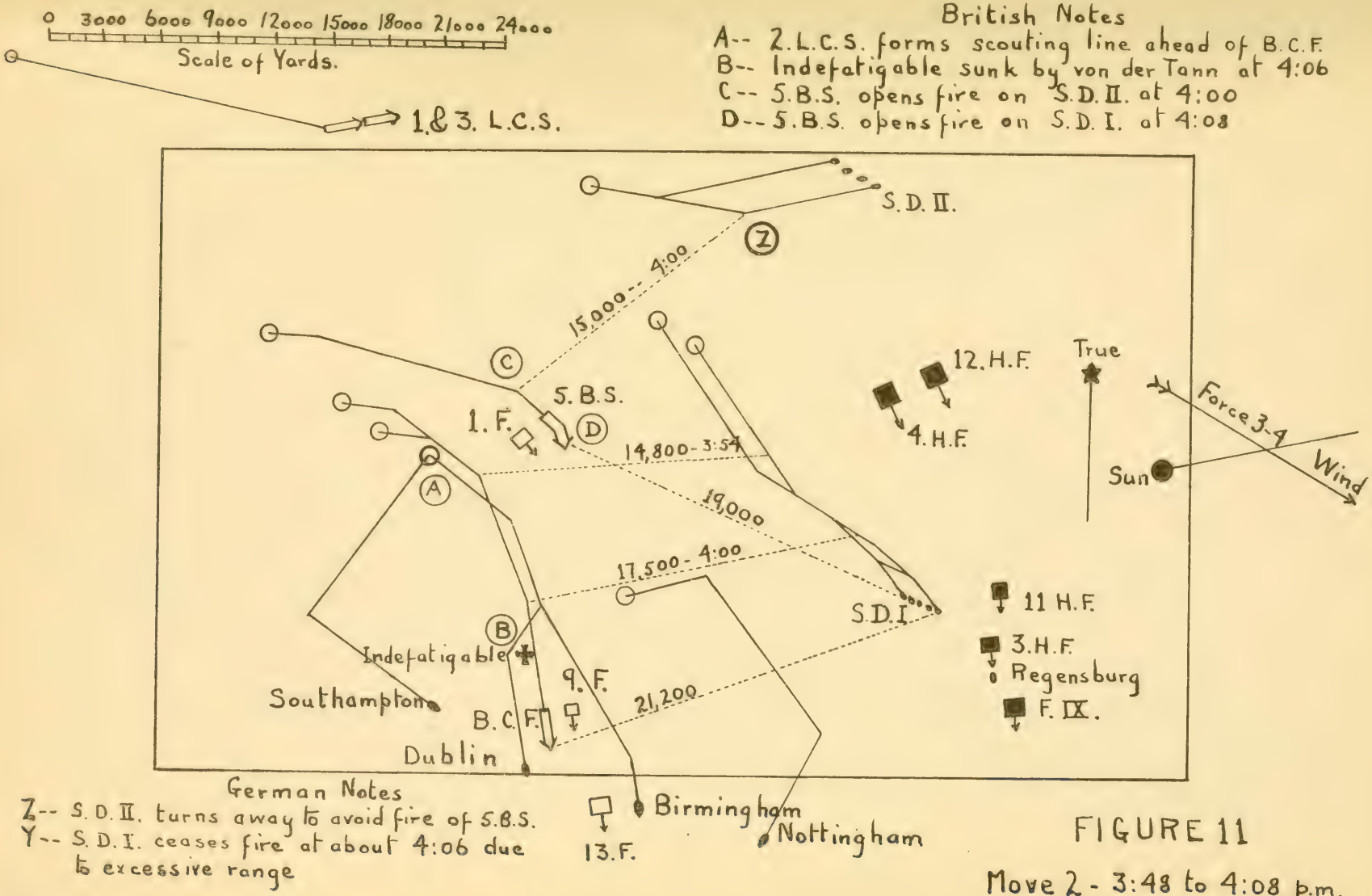


FIGURE 11

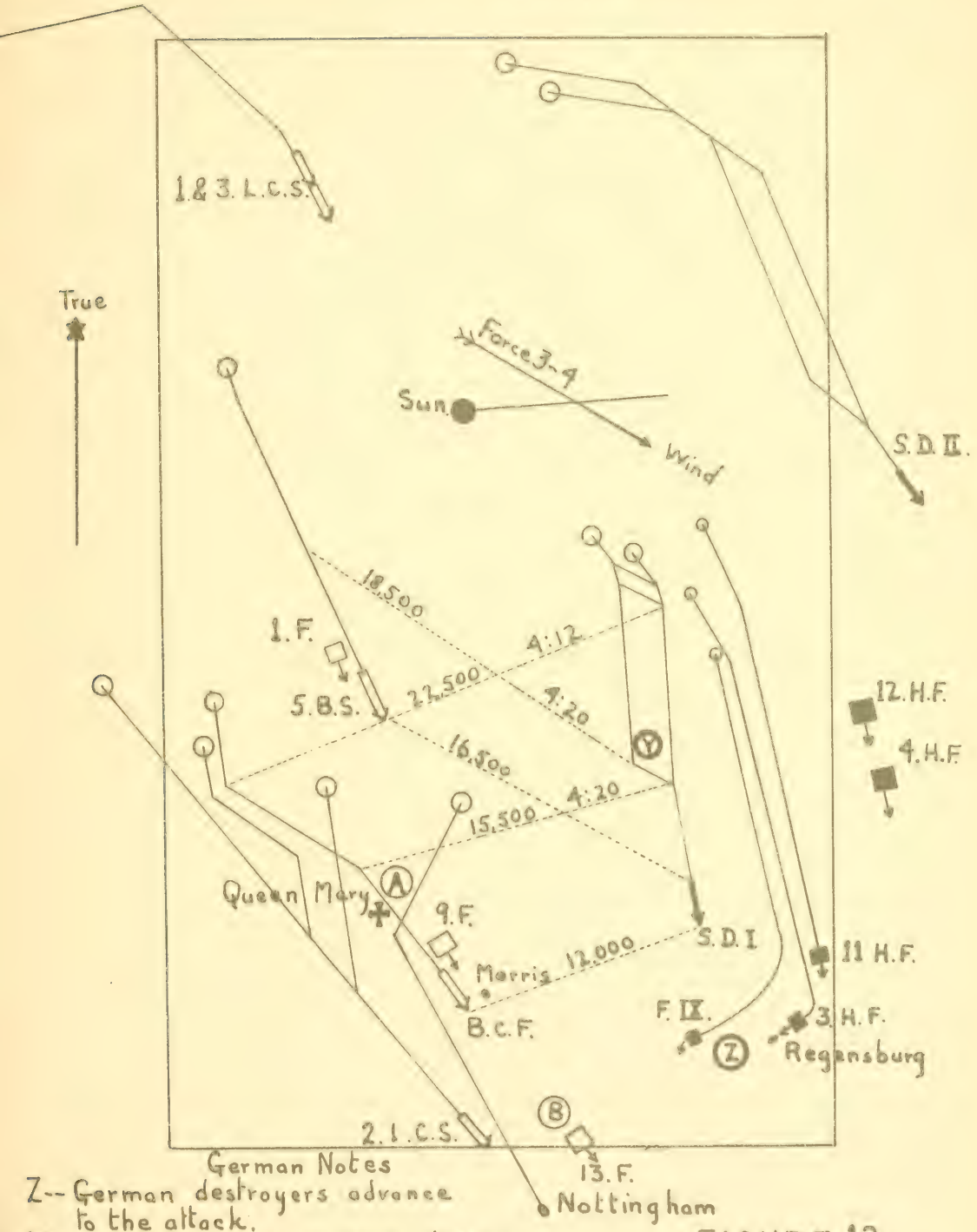
Move 2 - 3:48 to 4:08 p.m.

H H.F.

British Notes

A -- Queen Mary sunk by Derfflinger at 4:27

B -- 13th. Flotilla gains position for destroyer attack



German Notes

Z -- German destroyers advance to the attack.

Y - S.D. I. reopens fire at about 4:17.

FIGURE 12

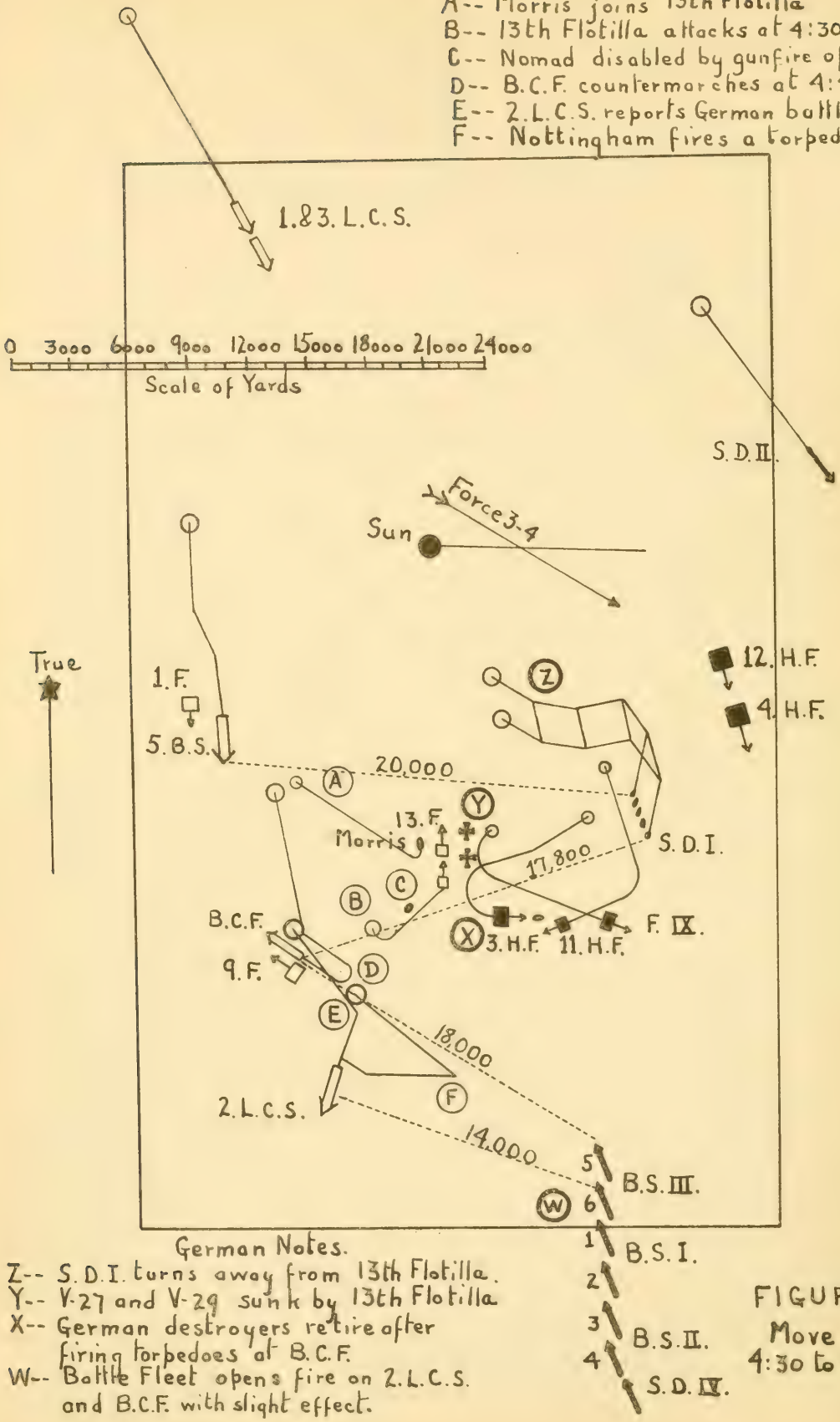
0 3000 6000 9000 12000 15000 18000 21000 24000 Move 3. - 4:08 to 4:30 p.m.

Scale of Yards

H.H.F.

British Notes.

A-- Morris joins 13th Flotilla
B-- 13th Flotilla attacks at 4:30.
C-- Nomad disabled by gunfire of S.D.I.
D-- B.C.F. countermarches at 4:42
E-- 2.L.C.S. reports German battle fleet.
F-- Nottingham fires a torpedo.



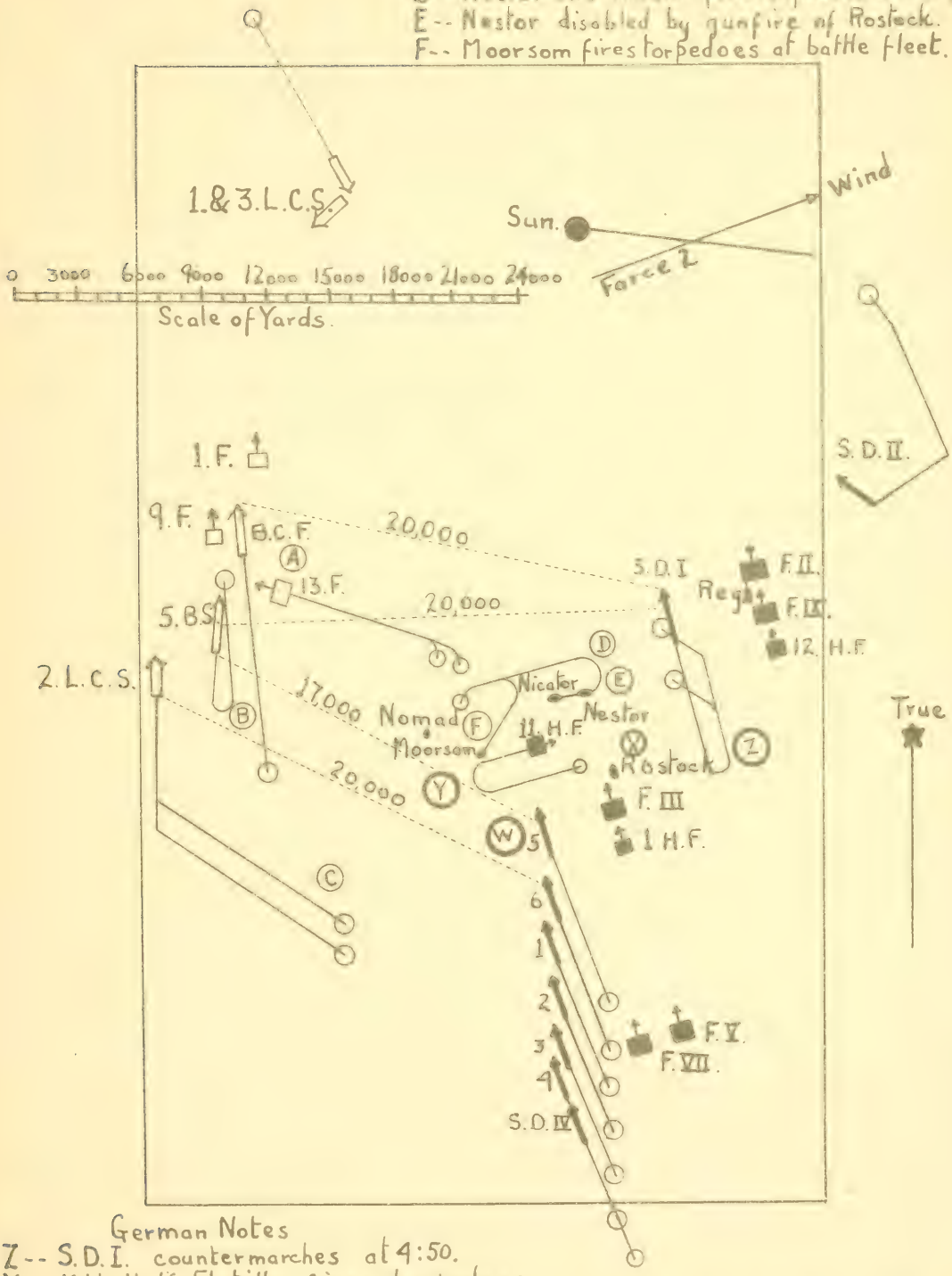
German Notes.

Z-- S.D.I. turns away from 13th Flotilla.
Y-- V-27 and V-29 sunk by 13th Flotilla
X-- German destroyers retire after firing torpedoes at B.C.F.
W-- Battle Fleet opens fire on 2.L.C.S. and B.C.F. with slight effect.

FIGURE 13
Move 4.
4:30 to 4:45 pm
H.H.F.

British Notes.

A-- 13th. Flotilla retires after firing torpedoes.
B-- 5th Battle Squadron countermarches.
C-- 2d.L.C.S. turns away under heavy gunfire.
D-- Nestor and Nicator fire torpedoes at S.D.I.
E-- Nestor disabled by gunfire of Rostock.
F-- Moorsom fires torpedoes at battle fleet.



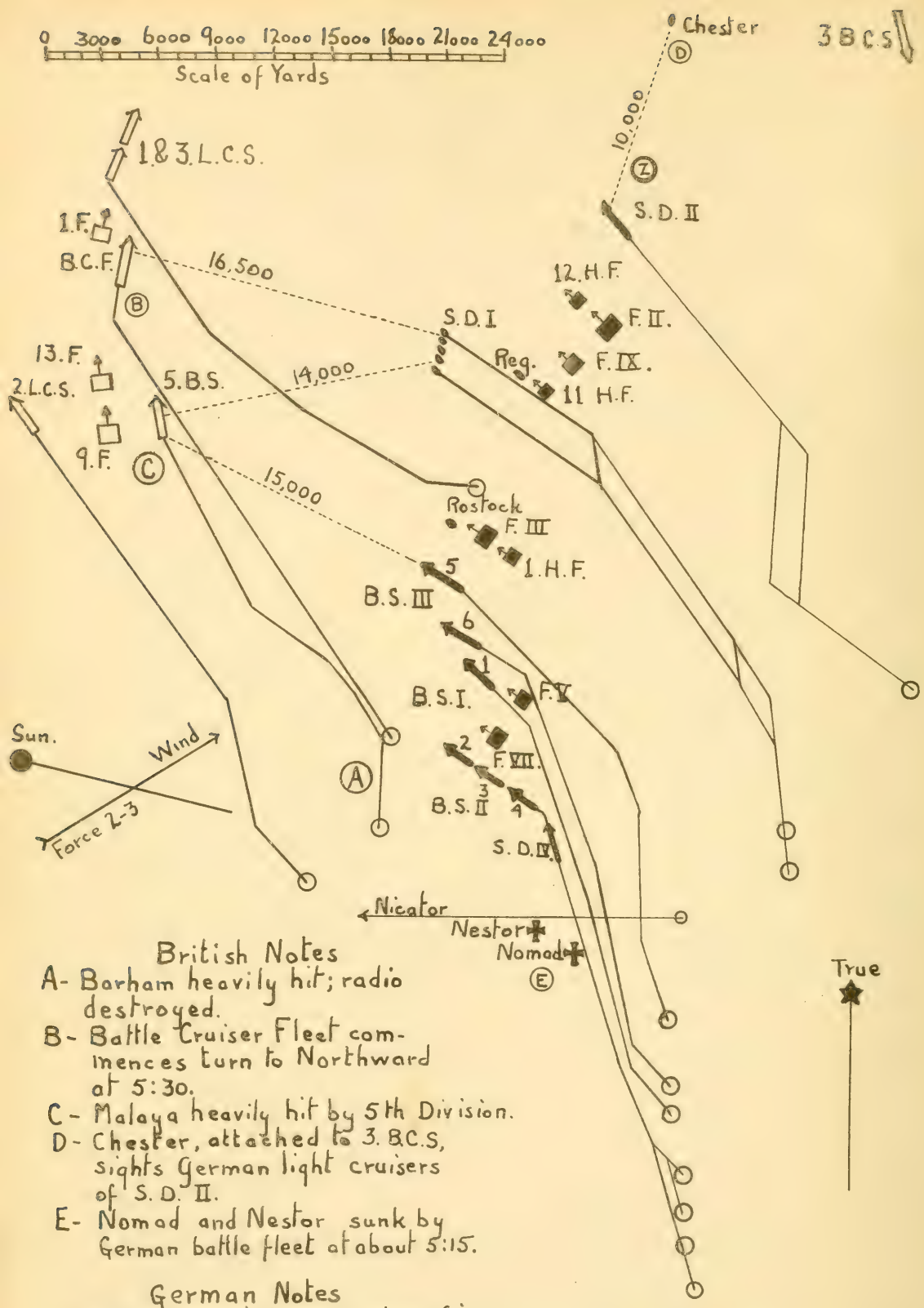
German Notes

Z-- S.D.I. countermarches at 4:50.
Y-- 11th Half Flotilla fires torpedoes.
X-- Rostock opens fire on Nestor.
W-- 5th Division opens fire on 5.B.S at about 5:00.

FIGURE 14.

Move 5- 4:45 to 5:00 p.m.

H.H.F.



British Notes

A- Barham heavily hit; radio destroyed.

B- Battle Cruiser Fleet commences turn to Northward at 5:30.

C- Malaya heavily hit by 5th Division.

D- Chester, attached to 3. B.C.S, sights German light cruisers of S. D. II.

E- Nomad and Nestor sunk by German battle fleet at about 5:15.

German Notes

Z- Scouting Division II opens fire on Chester.

FIGURE 15

Move 6 - 5:00 to 5:35 p.m.

H.H.F.

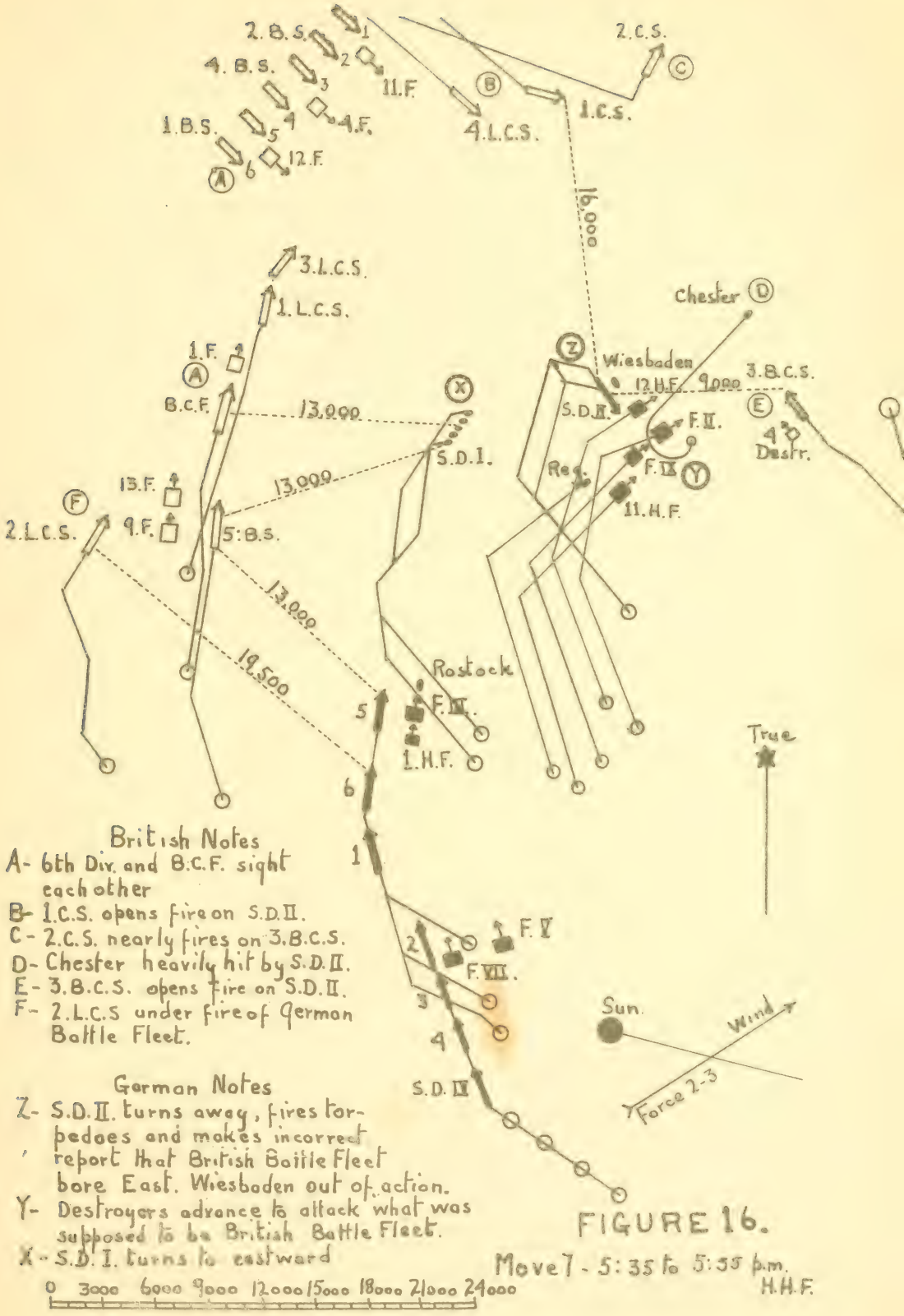


FIGURE 16.

Move 7 - 5:35 to 5:55 p.m.

H.H.F.

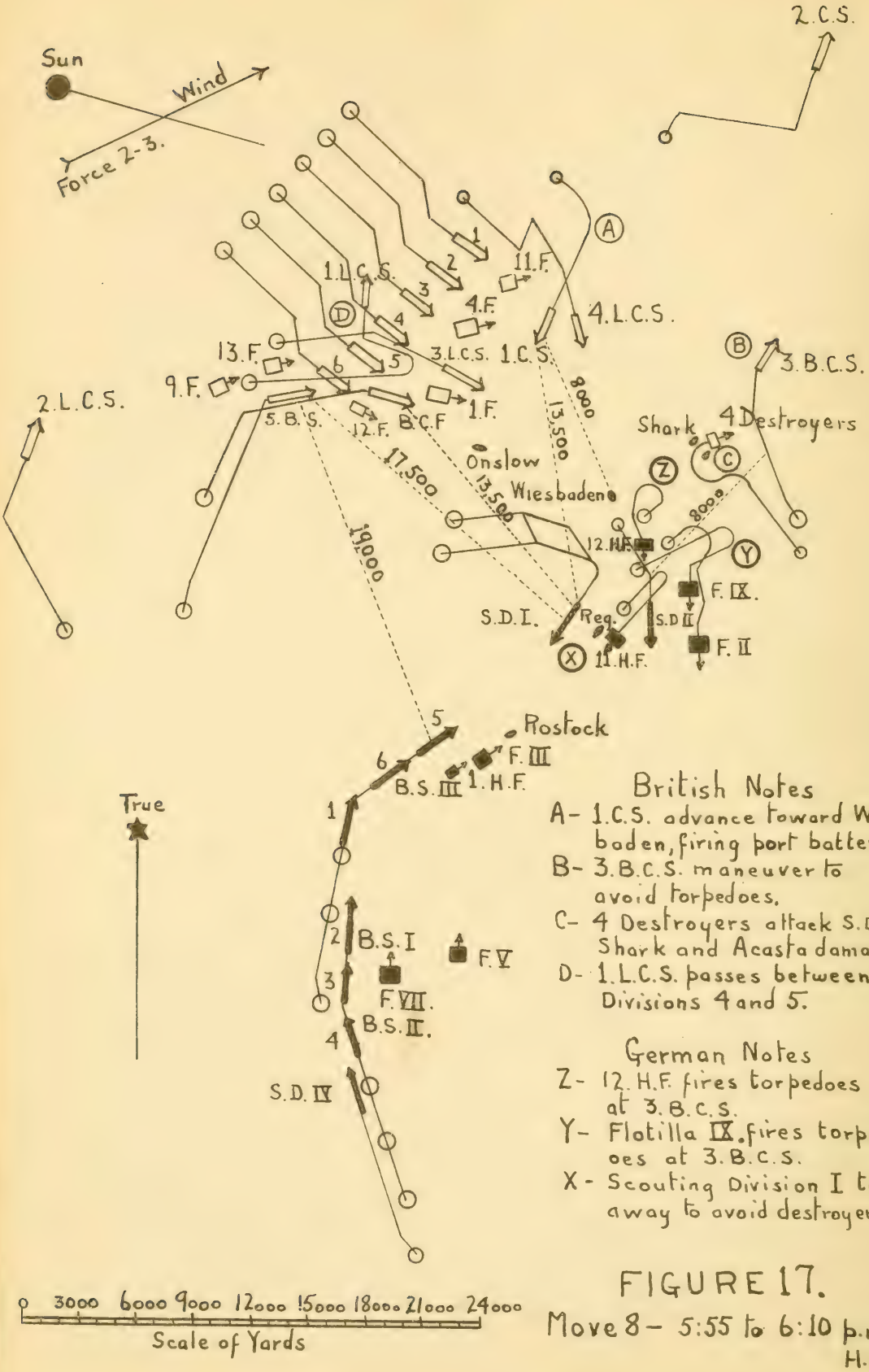


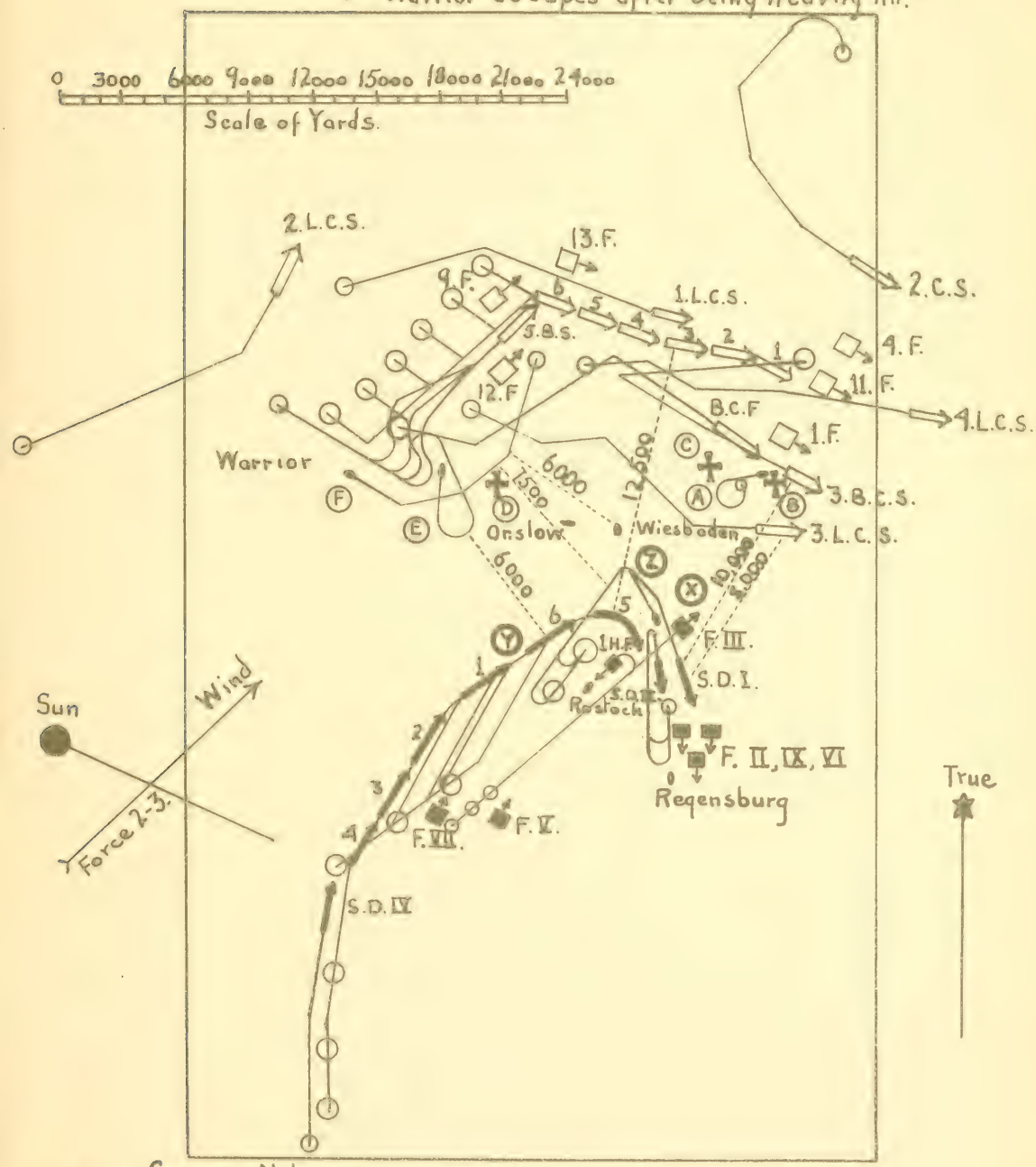
FIGURE 17.

Move 8 – 5:55 to 6:10 p.m.

H.H.F.

British Notes

A- Acasta fires torpedo at S.D.I, range 4500 yards.
B- Invincible sunk at 6:33 by S.D.I.
C- Shark sunk about 6:35.
D- Defense sunk at 6:16, probably by S.D.I.
E- Warspite heavily hit by battle fleet.
F- Warrior escapes after being heavily hit.



German Notes

Z- Lutzow leaves formation after having been very heavily hit. Other battle cruisers also badly damaged.
Y- Admiral Scheer signals "Ships Right About at 6:35
X- German destroyers lay smoke screen

FIGURE 18

Move 9 - 6:10 to 6:35 p.m.

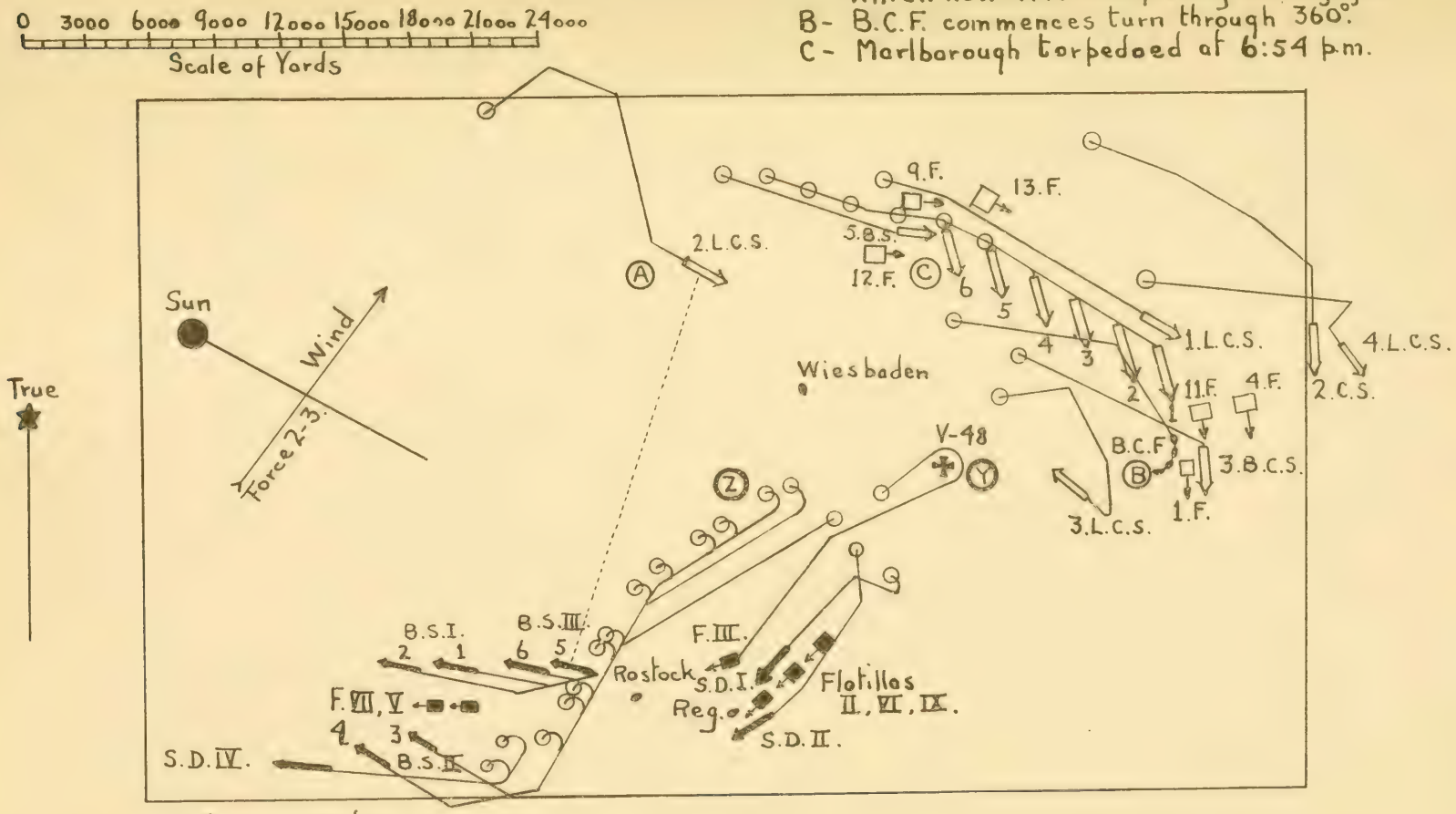
H.H.F

British Notes

A- 2.L.C.S. keeps in touch with High Sea Fleet, which now was completely disengaged.

B- B.C.F. commences turn through 360°.

C- Marlborough torpedoed at 6:54 p.m.



German Notes

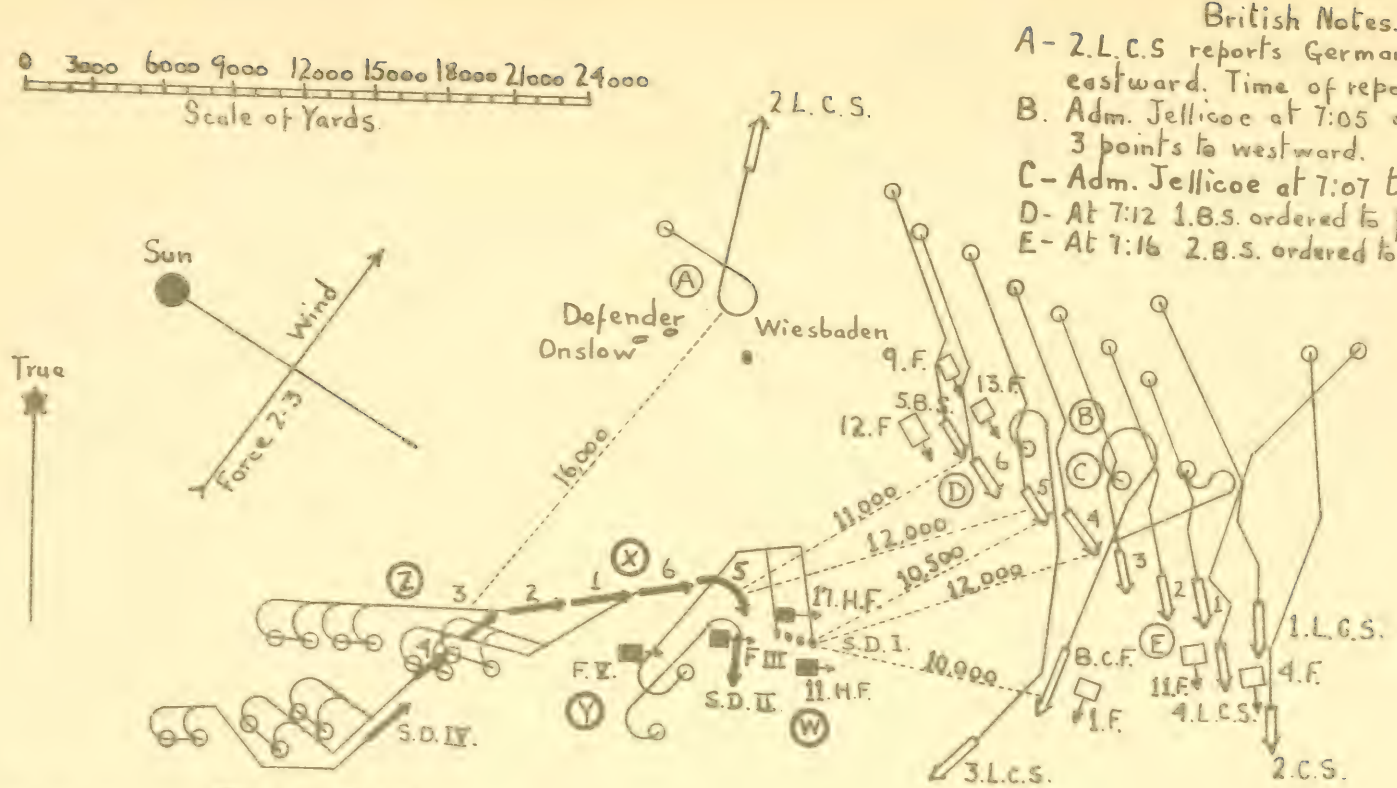
Z- Battle Fleet executes "Ships Right About".

Y- Flotilla III fires 6 torpedoes about 6:45. V-48 sunk by gunfire of Battle Fleet.

FIGURE 19.

Move 10 - 6:35 to 6:55 p.m.

H.H.F.



British Notes.

A- 2.L.C.S reports German turn to the eastward. Time of report 7:04.

B. Adm. Jellicoe at 7:05 changes course 3 points to westward.

C- Adm. Jellicoe at 7:07 turns 3 pts to E'w'd.

D- At 7:12 1.B.S. ordered to form astern 4.B.S.

E- At 7:16 2.B.S. ordered to form ahead 4.B.S.

German Notes.

Z- Battle Fleet goes "Ships Right About". S. D. IV. follows.

Y- S D. I. and II. countermarch to Northeastward.

X- German battle fleet under heavy fire. Derfflinger, Seydlitz, Konig, Grosser Kürfurst and Markgraf heavily hit.

W- 17 and 11 Half Flotillas advance to attack. Flotillas III and I. follow.

FIGURE 20.

Move 11- 6:55 to 7:15 p.m.

H.H.F.

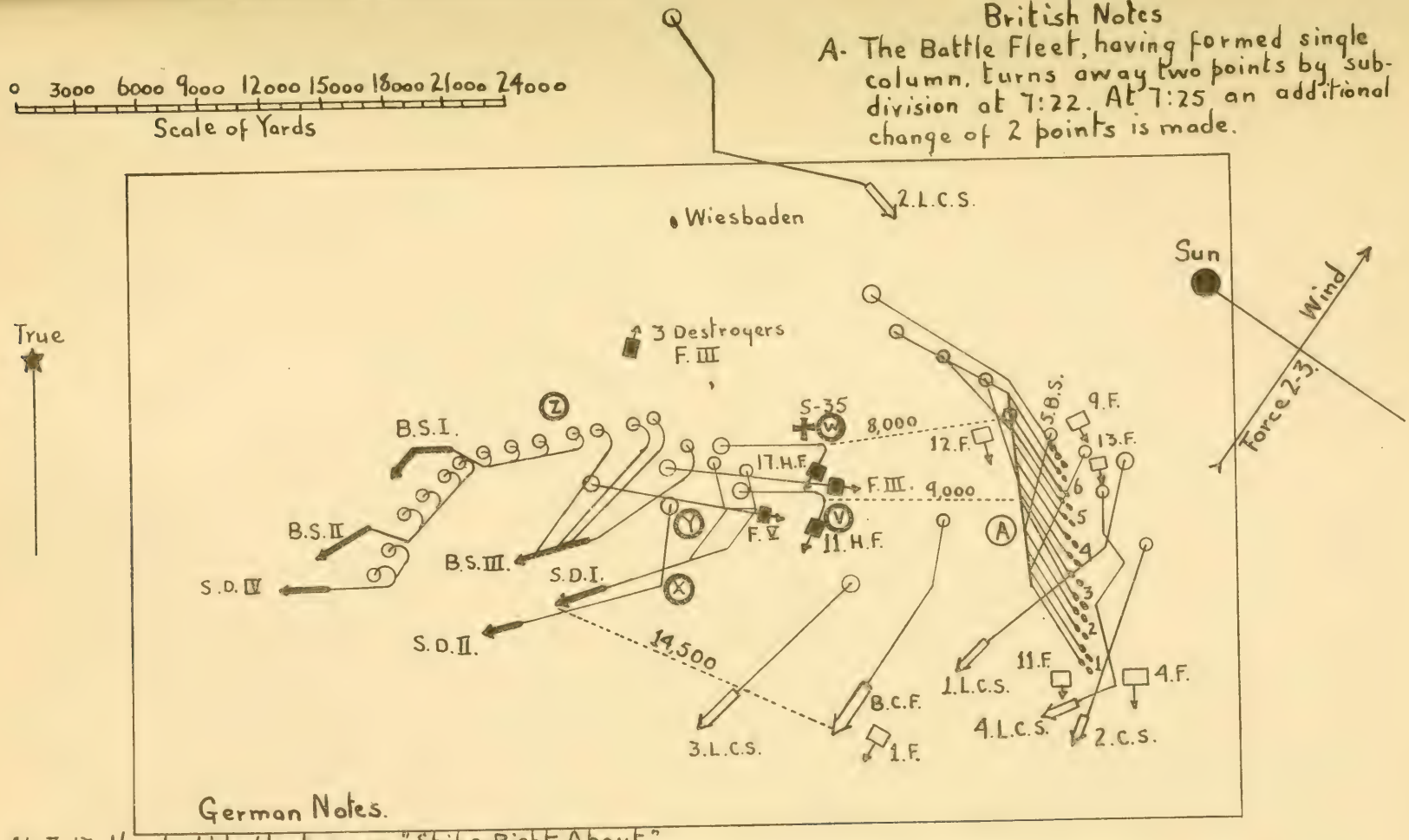


FIGURE 21.

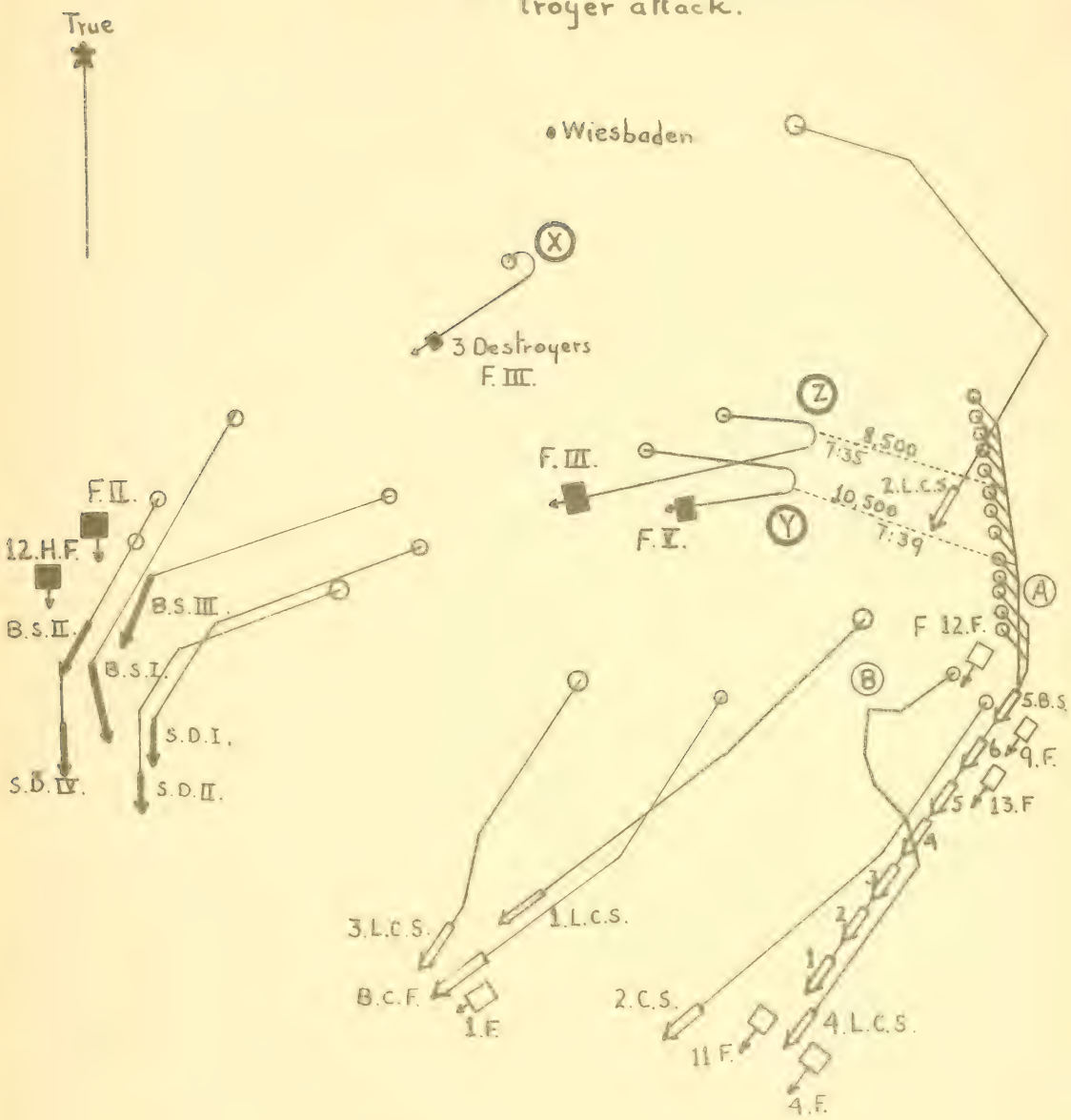
Move 12- 7:15 to 7:30 p.m.

H.H.F.

British Notes.

A- Battle Fleet forms single column at 7:33 p.m.

B- 4.L.C.S. advances to repel destroyer attack.



German Notes.

Z- Flotilla III retires. Only S-32 sighted British Battle Fleet and fired one torpedo.

Y- Flotilla V did not sight British Battle Fleet.

X- Destroyers unable to reach Wiesbaden; they fire 3 torpedoes.

0 3000 6000 9000 12000 15000 18000 21000 24000

Scale of Yards.

FIGURE 22.

Move 13- 7:30 to 8:00 p.m

H.H.F.

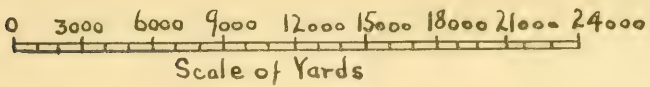
British Notes.

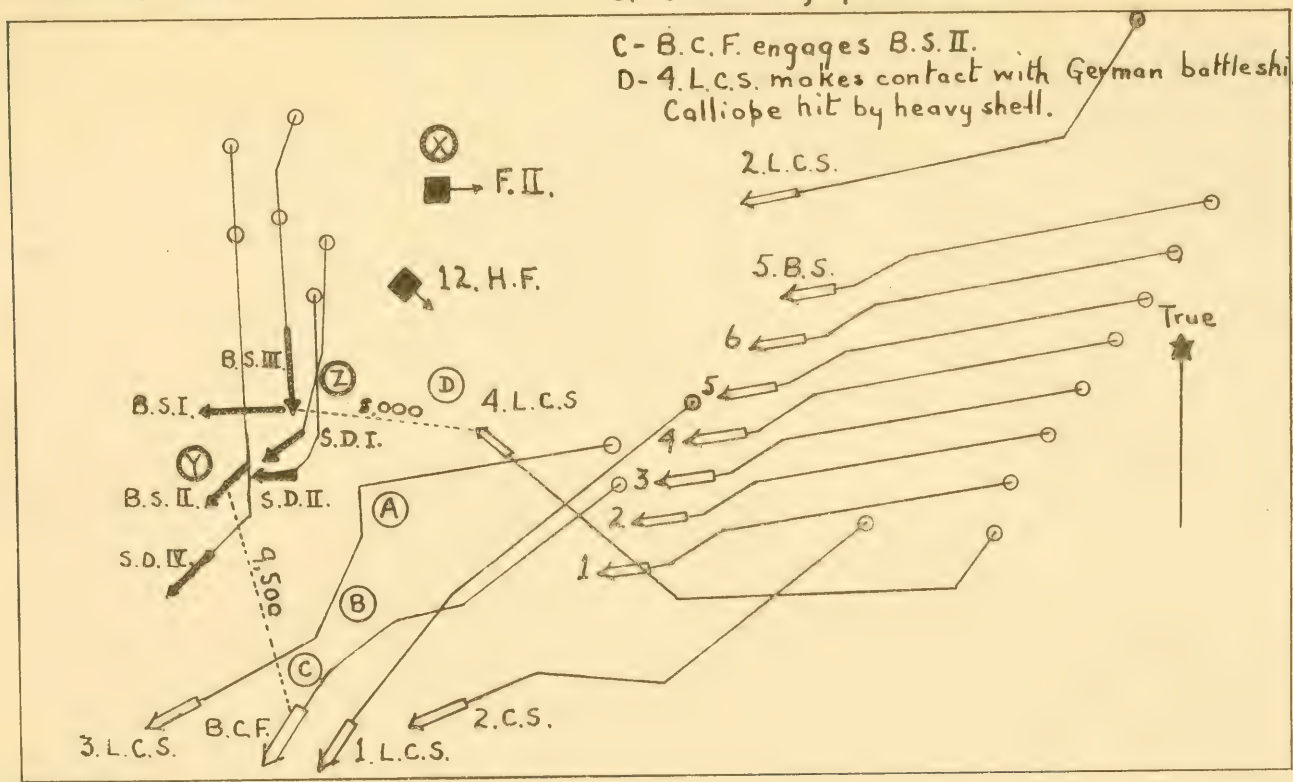
A- 3.L.C.S. sights High Sea Fleet at about 8:18. At 8:00 this squadron had searched to Westward in scouting line, in accordance with instructions of S.O., B.C.F.

B. B.C.F. engages S.D.I.

C- B.C.F. engages B.S.II.

D- 4.L.C.S. makes contact with German battleships. Calliope hit by heavy shell.





German Notes

Z- Scouting Division I. engages B.C.F.

Y- Battle Squadron II. engages B.C.F.

X- Flotilla II returns via Skaggerak after making this attack

FIGURE 23.

Move 14.- 8:00 to 8:30 p.m

H.H.F.

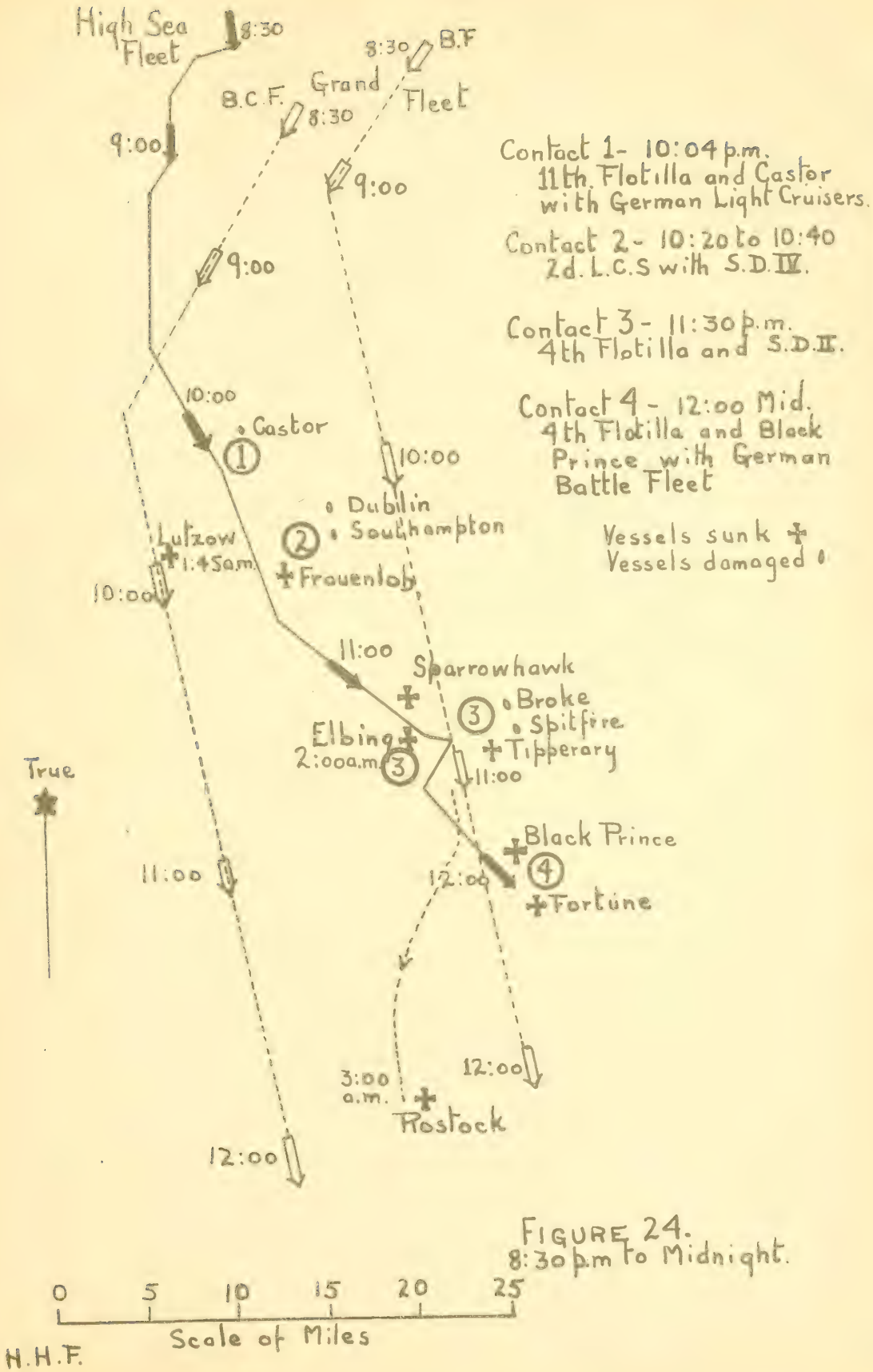


FIGURE 24.
8:30 p.m to Midnight.

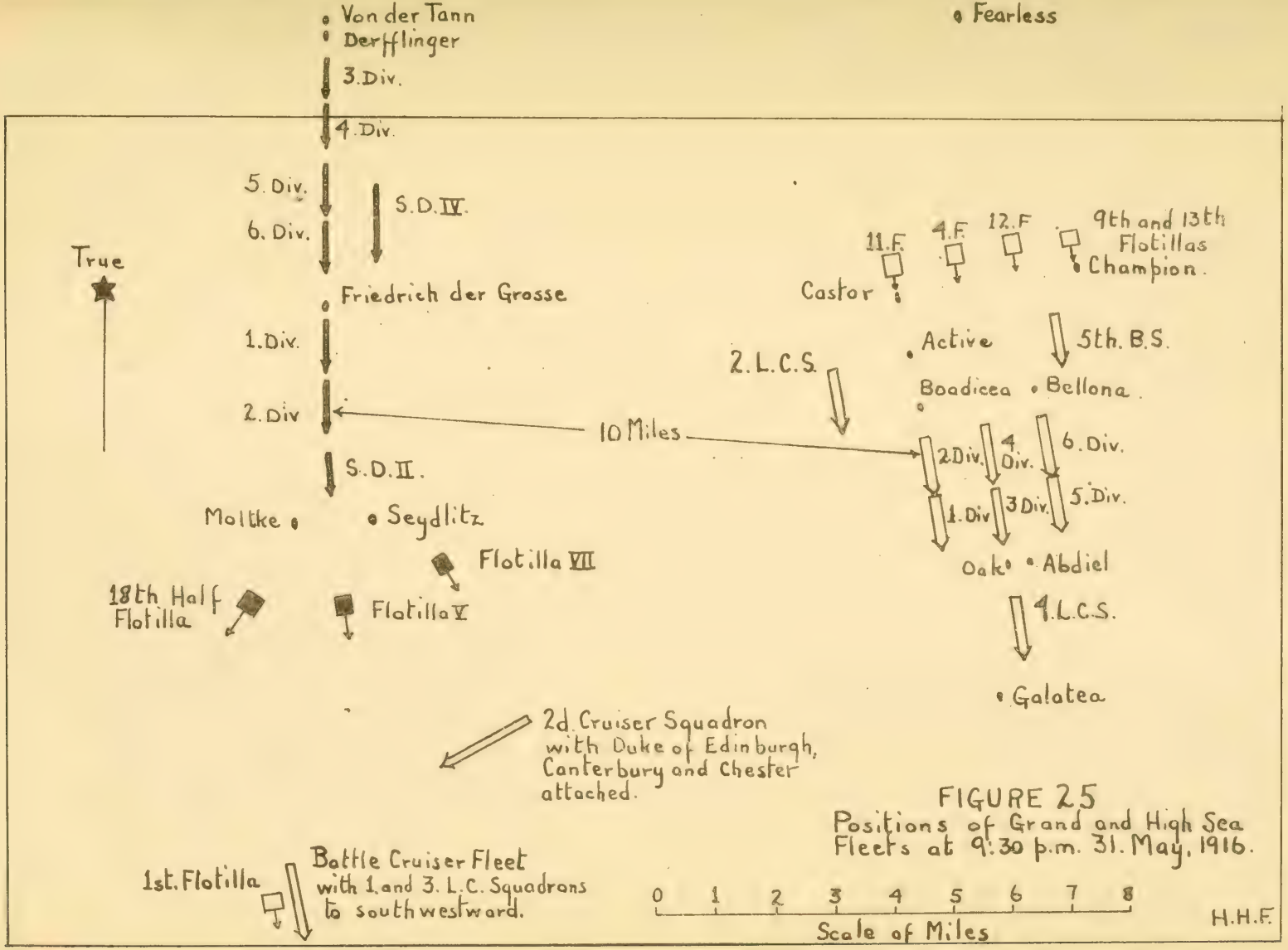


FIGURE 25
Positions of Grand and High Sea Fleets at 9:30 p.m. 31. May, 1916.

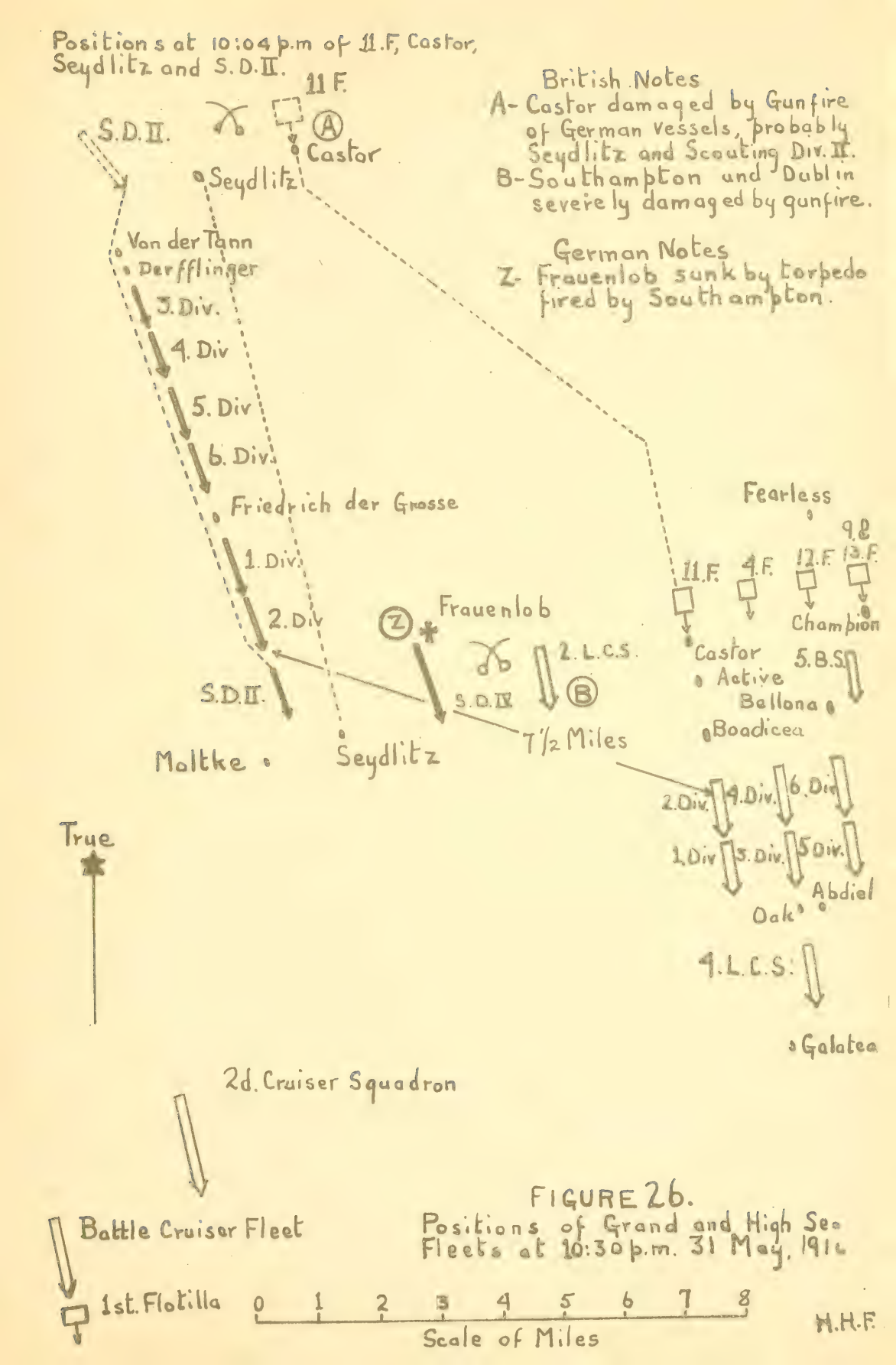


FIGURE 26.
Positions of Grand and High Sea Fleets at 10:30 p.m. 31 May, 1916

British Notes

A-- Tipperary sights 2d. Division and is sunk by gunfire

B- Broke collides with Sparrowhawk- Broke was put out of action with 82 casualties-- Sparrowhawk was sunk by British at 8:05 a.m.

C- Spitfire collided with German ship, probably Nassau, and was put out of action.

D- Left Column proceeds on to southward without attacking.

E- Right column turns out of action.

German Notes.

Z- Division 2 turns away from destroyer attack.

Y- Rostock torpedoed and sinks at 3:00 a.m.

X- Elbing tries to pass through battle line and is rammed by Posen. Is sunk by Germans at 2:00 a.m.

FIGURE 27.
Positions of Grand and High Sea Fleets at 11:30 p.m. 31 May. 1916.

H.H.F.

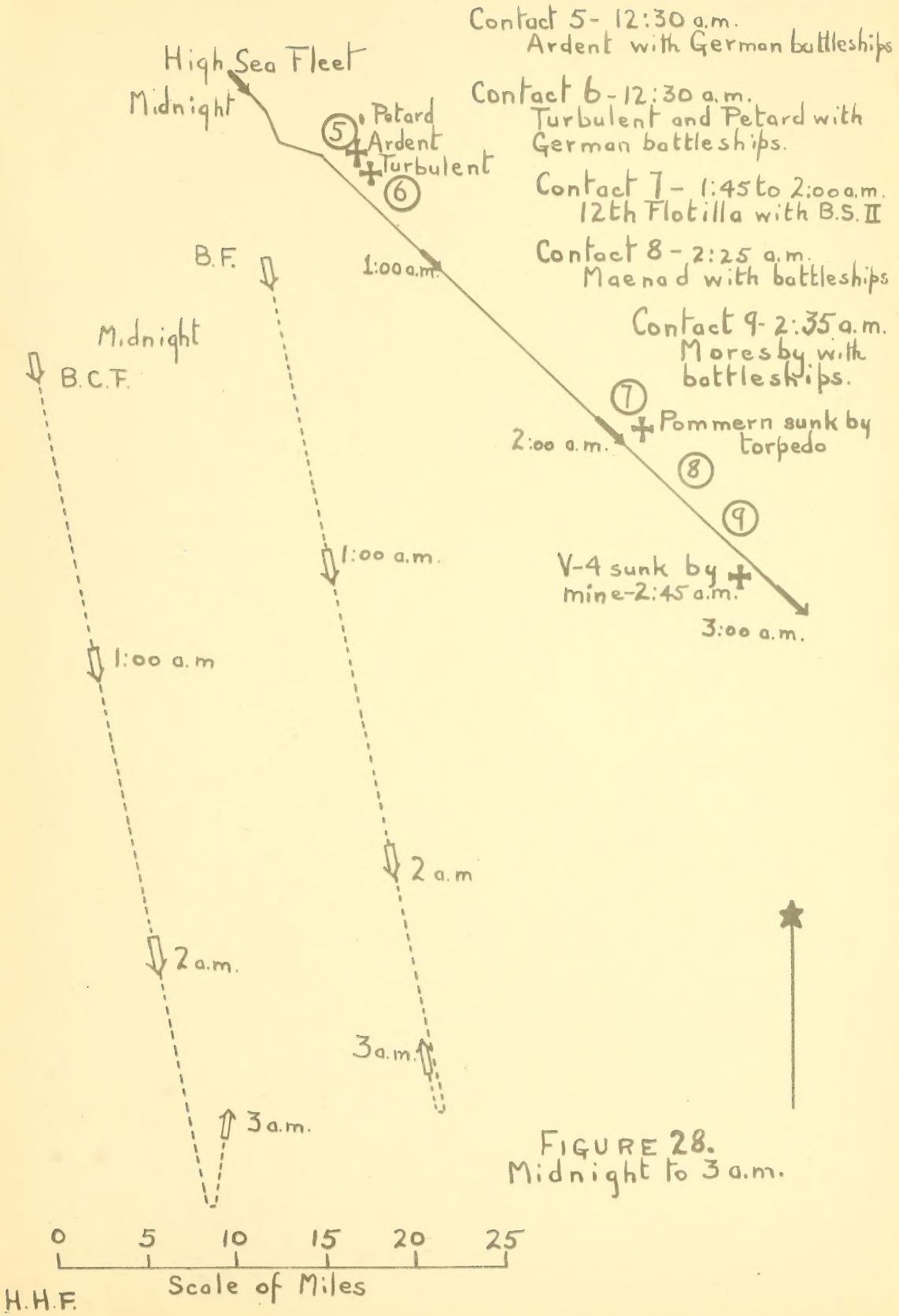


FIGURE 28.
Midnight to 3 a.m.

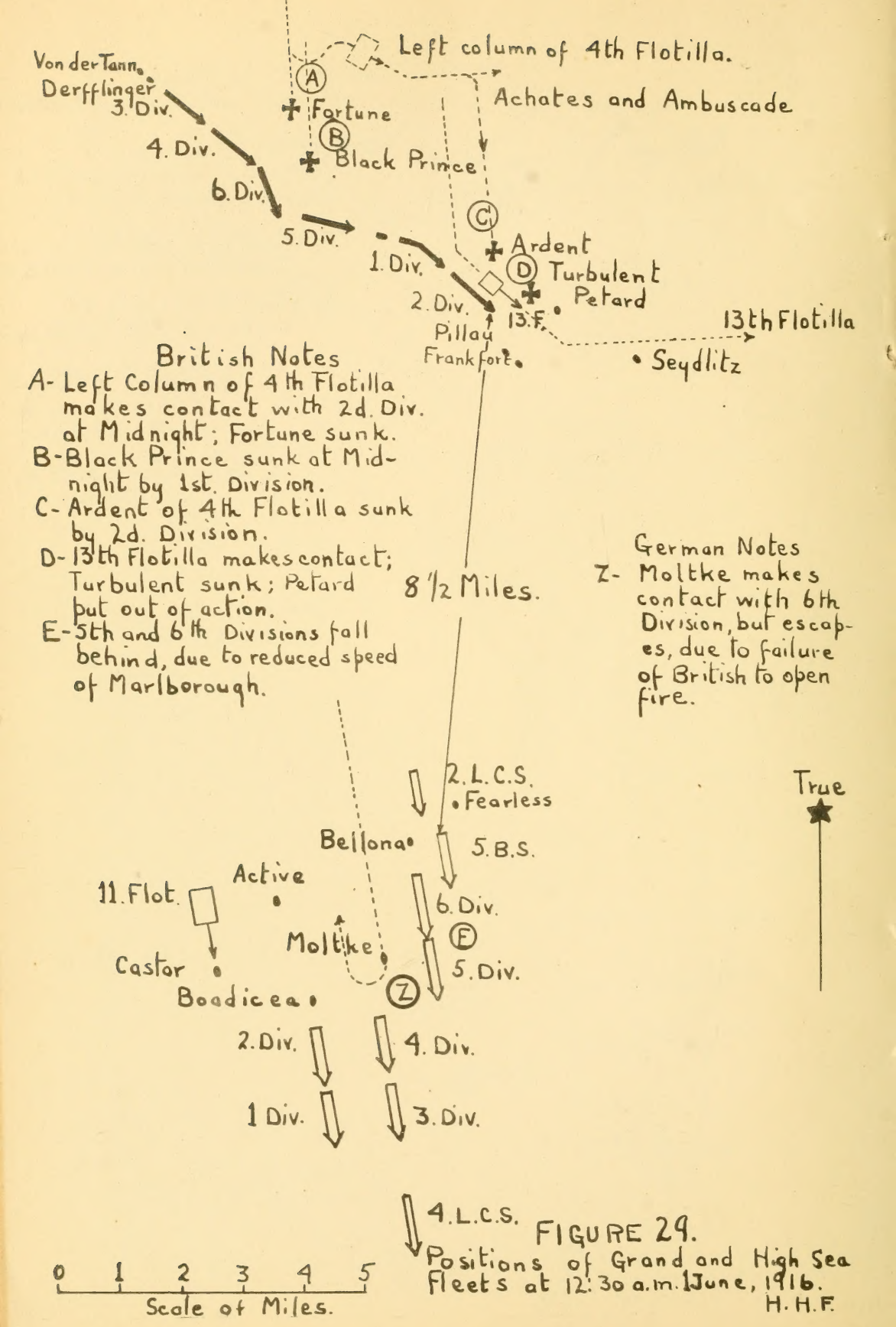


FIGURE 29.
Positions of Grand and High Sea Fleets at 12:30 a.m. 1 June, 1916.
H. H. F.

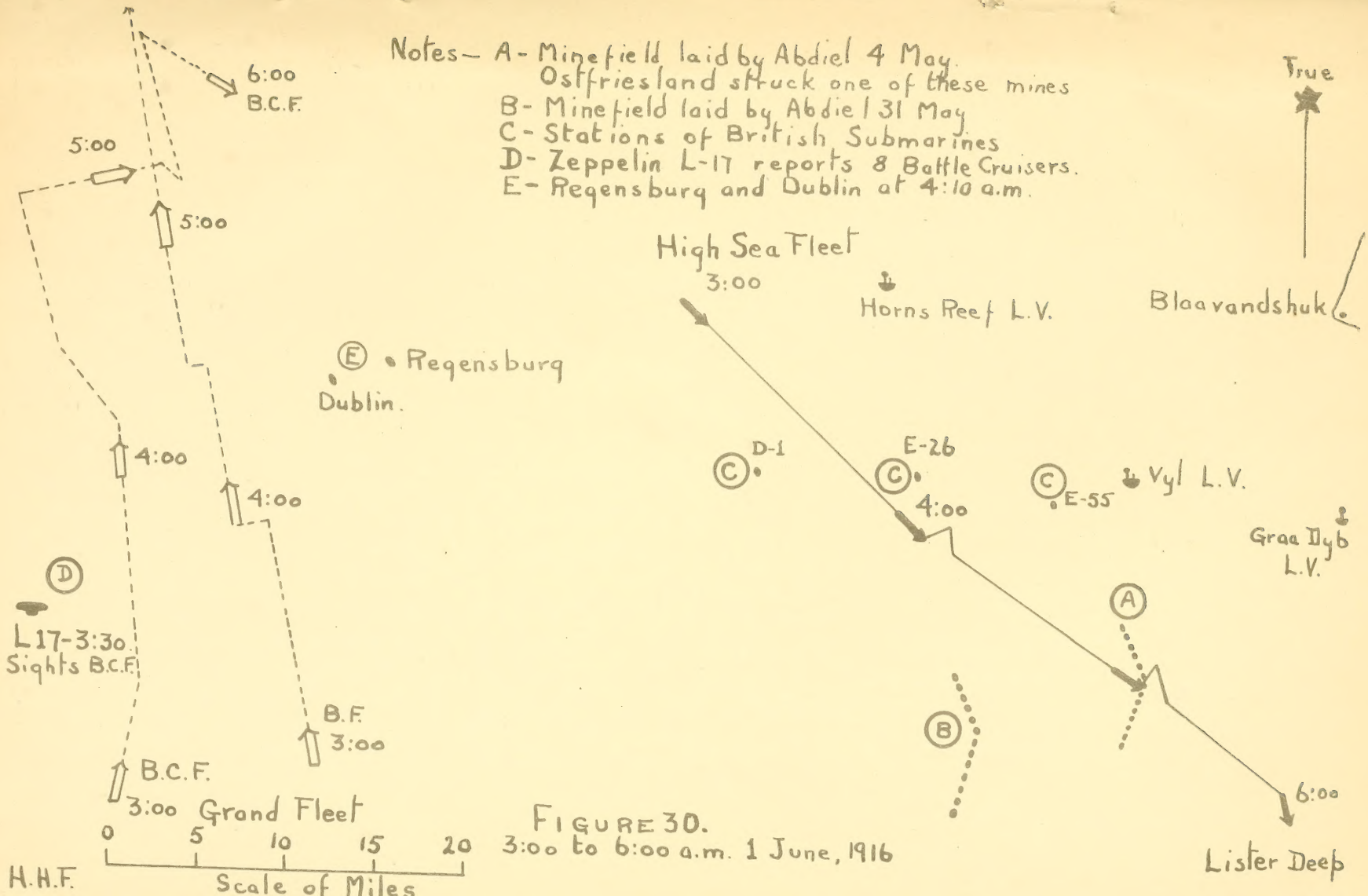


FIGURE 30.
3:00 to 6:00 a.m. 1 June, 1916

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